

SPECIAL ISSUE:

GRATEFUL DEAD

# HIGH TIMES

FEBRUARY 1987

\$3.95  
CANADA \$4.50

TURN  
SHAKE  
INTO HASH

WINTERIZE  
YOUR  
GROW ROOM

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71896 48427

# Indoor Sun

## ENERGY EFFICIENT GROW LIGHTS

### METAL HALIDE—(balanced growing spectrum)

All systems include an assembled ballast, bulb, reflector, 15' lamp cord and 8' power cord.

- ★ 1000 watt DELUXE — Choice of our 46" polished aluminum super reflective hood (high temp. white enamel available on request) or our 20" adjustable white enamel reflector. Ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 110,000 lumen — 12,000 hr. bulb ..... \$184.50  
To upgrade to our 125,000 lumen — 12,000 hr. Superbulb ..... Add \$15.00
- ★ 1000 watt STANDARD — 18" high temp. white enamel reflector. Ventilated ballast box. System includes a 110,000 lumen — 12,000 hr. bulb ..... \$167.50  
To upgrade to our 125,000 lumen — 12,000 hr. Superbulb ..... Add \$15.00
- ★ 1000 watt ECONOMY — 2'x3' polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 110,000 lumen — 12,000 hr. bulb ..... \$144.50  
To upgrade to our 125,000 lumen — 12,000 hr. Superbulb ..... Add \$15.00
- ★ 400 watt DELUXE — 14" high temp. white enamel reflector. Ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 34,000 lumen — 20,000 hr. bulb ..... \$134.50  
To upgrade to our 40,000 lumen — 20,000 hr. Superbulb ..... Add \$10.00
- ★ 400 watt STANDARD — 14" high temp. white enamel reflector. Ventilated ballast box. System includes a 34,000 lumen — 20,000 hr. bulb ..... \$124.50  
To upgrade to our 40,000 lumen — 20,000 hr. Superbulb ..... Add \$10.00
- ★ 400 watt ECONOMY — 2'x3' polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 34,000 lumen — 20,000 hr. bulb ..... \$109.50  
To upgrade to our 40,000 lumen — 20,000 hr. Superbulb ..... Add \$10.00

### HIGH PRESSURE SODIUM—(red orange spectrum)

Completely assembled. All systems include a covered ventilated ballast, bulb, reflector, 15' lamp cord and 8' power cord.

- ★ 1000 watt DELUXE — Choice of our 46" polished aluminum super reflective hood (high temp. white enamel available on request) or our 20" adjustable white enamel reflector. 5 KV pulse rated socket. Includes 140,000 lumen — 24,000 hr. Sodium bulb ..... \$269.50
- ★ 400 watt DELUXE — 14" white enamel reflector. Includes 50,000 lumen — 24,000 hr. Sodium bulb ..... \$189.50
- ★ MINI-MIGHT GROW LIGHT — Our compact powerful (16,000 lumens) grow light employs a highly efficient High Pressure Sodium lamp (3 year bulb life) and a self-contained Transformer-Ignitor. Costs only 15¢ a day (18 hours on) or about \$4.50/month to operate. 15" reflector — good for 3'x3' area. Sale priced at \$99.00+\$5.00 shipping, anywhere in U.S.A. ..... \$99.00

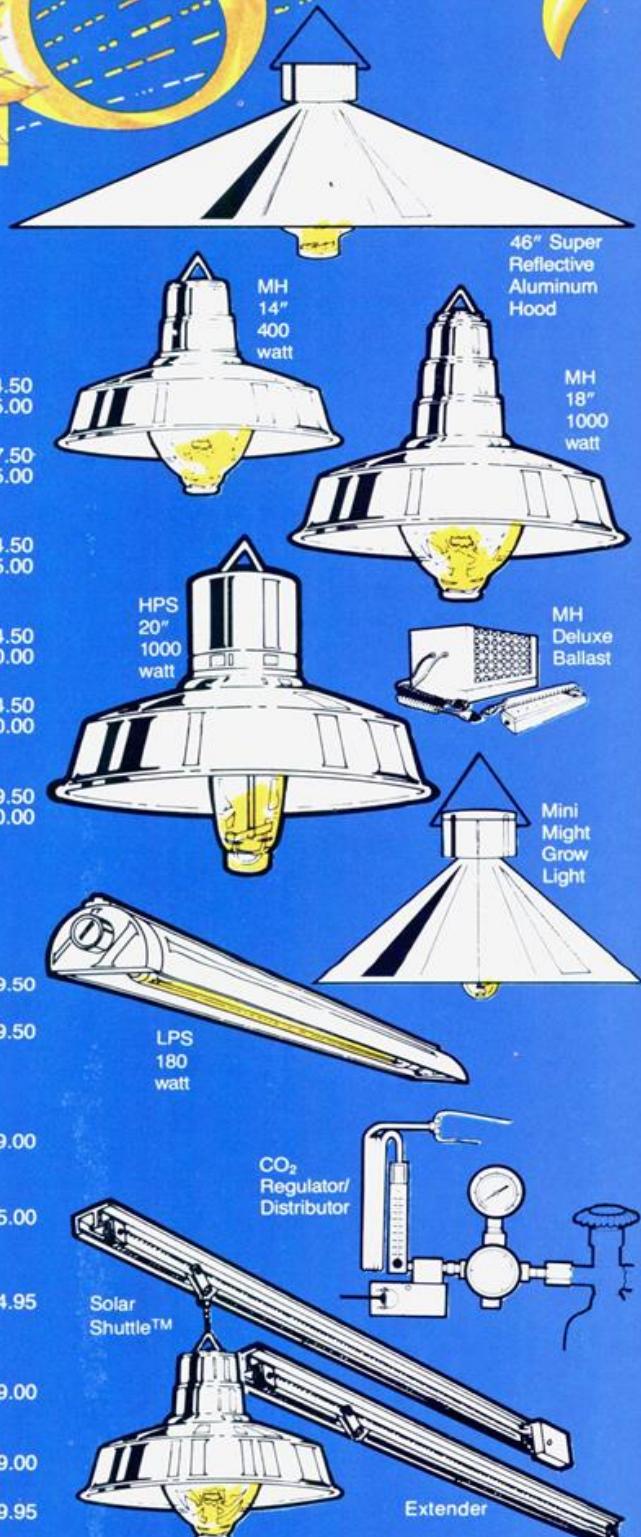
### LOW PRESSURE SODIUM—(our most efficient light)

- ★ 180 watts produce 33,000 lumens. Great for flowering. Excellent for side light. Deluxe fixture. Ventilated ballast box ..... \$195.00

### ACCESSORIES:

- Replacement light bulbs available for all our systems at our low everyday prices.
- ★ 15 amp Paragon timer (works on all our systems) ..... \$14.95
- ★ CO<sub>2</sub> Regulator/Distributor — Maintains CO<sub>2</sub> at a constant level while the light is on to promote up to 25% increase in growth. For growing areas 25 sq. ft. to 1000 sq. ft. Includes all gauges and distribution lines. Plugs into your light's timer (tank not included) ..... Sale Priced \$139.00
- ★ Solar Shuttle™ Track — moves your lamp quietly and efficiently back and forth above your plants on a 6-foot track in 40-minute cycles increasing the coverage of your lamp ..... \$99.00
- ★ Solar Shuttle™ Extender — adds another 6-foot tract to your Solar Shuttle™ so you can run two lights off of one shuttle ..... \$39.95
- ★ Green Leaves Nutrient — All purpose liquid nutrient. Ideal for all stages of plant growth. Use with soil or hydroponic systems.
  - 12-oz. Bottle ..... \$3.95
  - 1 Gallon ..... \$19.95

Grow and Bloom Nutrient in granular form available on request.



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GOING WITH**

**BEFORE!**



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1000 TABLETS  
& CAPSULES  
TOTAL/10 TYPES  
**\$42.50**  
**#26**

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CAPSULES  
TOTAL/5 TYPES  
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**#31**  
INGREDIENTS MAY VARY



**NOTE**

Our products bear our trademark. They cannot be confused with any other product on the market. Any attempts to offer these products for sale as a controlled substance or prescription drug may be a crime. This may result in criminal prosecution. Compliance with any law is the purchasers responsibility.

**AFTER!**



**EXTRA  
STRENGTH**

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(213) 376-7422**

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  - PERSONAL CHECK (MUST BE BANK PRINTED WITH THE SHIP TO ADDRESS. ACCOUNT MUST BE 6 MONTHS OLD. NO CHECKS OVER \$75.00 PAYMENT TO 20TH CENTURY DISTRIBUTORS)
  - C.O.D. (CASH ON DELIVERY) (PHONE IN ONLY)
  - ALL ORDERS IN US FUNDS
- Offers subject to change without notice. Take only as directed. Read all package statements, no sales to minors or where prohibited by law. The advertised products have various levels of non-controlled ingredients. O.T.C.'s Not to be Mixed with Alcohol.

# ENERGIZERS

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**WE WILL MEET OR BEAT ANY**  
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**ENERGIZERS** GIVES YOU EXTRA STAMINA TO LOSE THOSE UNWANTED POUNDS AND INCHES THAT MAKE YOU FEEL SO UNATTRACTIVE AND UNDESIRABLE!

**ENERGIZERS** LETS YOU LIVE A MORE EXPERIENCING LIFE!

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(THICK)**

**CLEAR UPS  
(THIN)**

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# DANSCO INDOOR GARDEN CENTERS

1000 HPS - \$259<sup>00</sup>  
 400 HPS - \$189<sup>00</sup>  
 2 yr. warranty

1000 MH - \$199<sup>00</sup>  
 400 MH - \$139<sup>00</sup>  
 2 yr. warranty



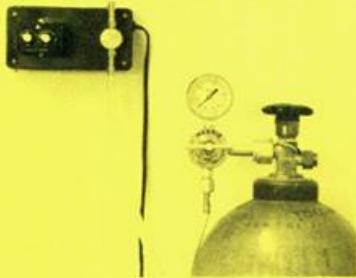
## HYDRO FLO-I \$185<sup>00</sup>

Ebb-flow system includes pump, timer, reservoir, trays, Wonderwool medium and 30 of the new 1 gallon "root pruning" pots. (see insert) The exclusive design of this pot increases root branching by 300%  
 Optional: 18 standard 2 gallon pots

## CO<sub>2</sub> Injection System

\$155<sup>00</sup>

- ★ Solid state timer with adjustable 0-10 min. "ON", 1-120 min. "OFF" times
- ★ Brass body regulator with 0-60 cubic foot / hour gauge
- ★ Solenoid valve complete with hose, fittings and instructions
- ★ Aluminum CO<sub>2</sub> tank optional



## Grotek 1000A \$279<sup>00</sup>

### Environmental Time Control System

Programmable 4 channel time code generator for simultaneous controlling of lights, nutrient pumps, CO<sub>2</sub> release valves and exhaust fans

#### Features:

- ★ All solid state digital circuitry insures accuracy over long time periods
- ★ All AC loads switched through solid state relays; no mechanical contacts to be affected by moisture or temperature
- ★ 25 ampere rated triac used on light output channel; additional current can be switched by adding external relays

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4' and 7' parabolic reflectors • light rails and tracks • horizontal mount light fixtures • low cost digital pH and EC meters • ion generators  
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NO. 138 ▲ FEBRUARY 1987

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# HIGH TIMES



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# EDITOR'S NOTE

*This issue is our thanks to readers who sent in letters like those excerpted below:*

"I do not see how any other band can use the term **psychedelic** while the Grateful Dead remain in the memory of living men. Until you do an article on the Dead, I won't touch your magazine with a ten foot stem. There is **NOTHING** like a **Dead show...**"

"Way to go with the Dead Issue—it's long overdue!..."

"The Dead are great. It's only fair to all the heads to devote just one issue. It's not much to ask..."

"A psychedelic issue without mention of the original movers of the psychedelic issue such as the Grateful Dead and Ken Kesey is not much of an issue... I think your psychedelic issue is just one more example of how your magazine has gotten out of step with the original counter-culture movement and has turned this one-time avid reader into an occasional reader of your one-time great magazine..."

"You guys better get your shit together! The Grateful Dead are the only true psychedelic band in America. I tour, I know!!! I would like to see an issue of HIGH TIMES devoted to the Dead—put me down for two copies..."

"This is the Grateful Dead's 22nd year together. I agree that an entire issue should be devoted to them. Jerry Garcia was in the hospital and dying, but did you bother to print any of that? No! There are thousands of other Deadheads who read HIGH TIMES and I'm sure they feel the same way..."

"Why not do a cover story on the Grateful Dead, or is that too left field even for you? The Dead have been doing things backwards (as far as the music industry is concerned) from the start, yet they have survived! So why not let your readers who might not know what magic they possess get turned on?..."

"Maybe now that Jerry's recovering from his coma you'll give the Dead some coverage. GET IT TOGETHER AND GIVE US SOME DEAD!..."

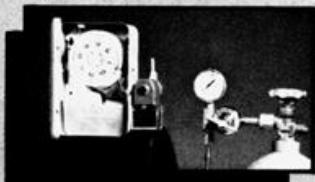
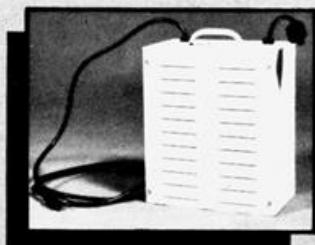
From on high,

John Howell

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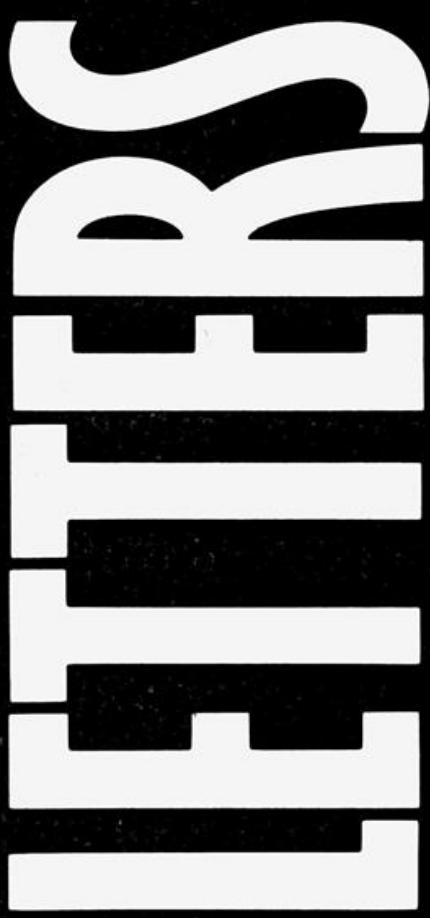
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## HARVEST HIGHS CONT...

Every time I sit down, I can't help picking up the November '86 issue and returning to the "Harvest" section. The articles are informative and interesting, and the photos are great! Keep up the good work!

—Digger John  
Kings Beach, California

## EUROSTASH

I'm tired of hearing people cry about the prices of drugs in the US. I'm stationed in Europe, and we have to pay \$12 a hit for stars and dots of acid, and the stuff sucks. I'm dying for paper. In Europe, people hide their reputations as drug takers. In the States, everyone boasts about it. Why not help overseas servicemen? Send acid overseas!

—A Friendly Head  
Somewhere in Europe

## NOSE NOTES

I was sitting around partying with my friends, flipping through the November issue, when I found myself automatically raising the centerfold to my nose to smell it. That's when I got this fantastic idea: scratch-and-sniff centerfolds! You should consider it. All my friends love the idea.

—A Gratefully Deadicated Reader  
College Park, Maryland

*continued on page 14*

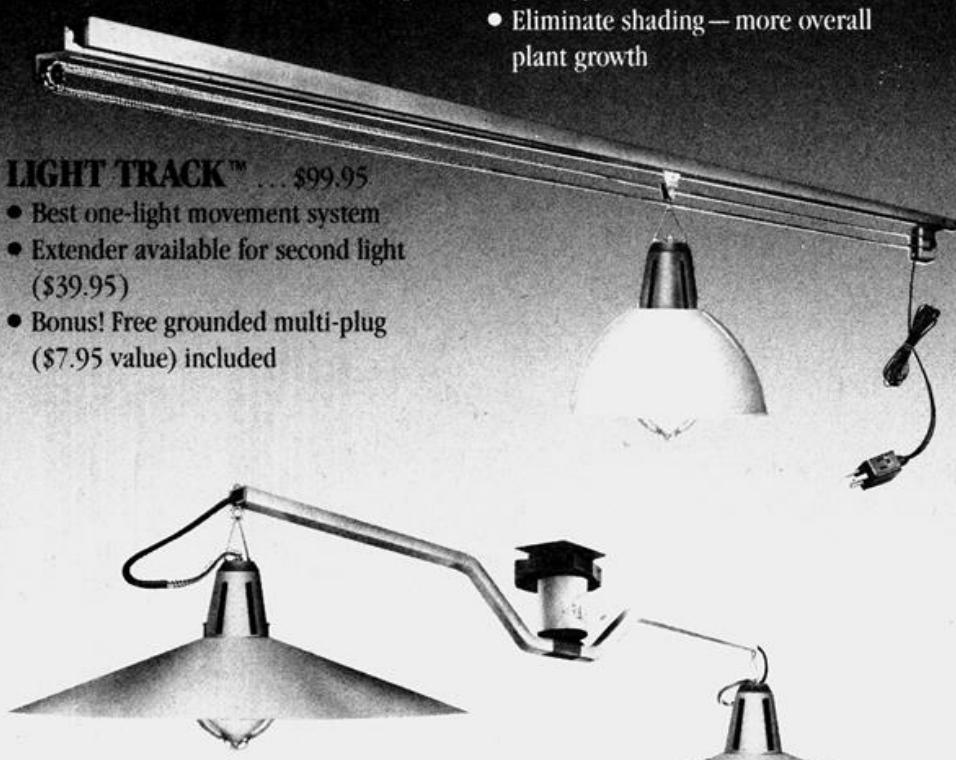
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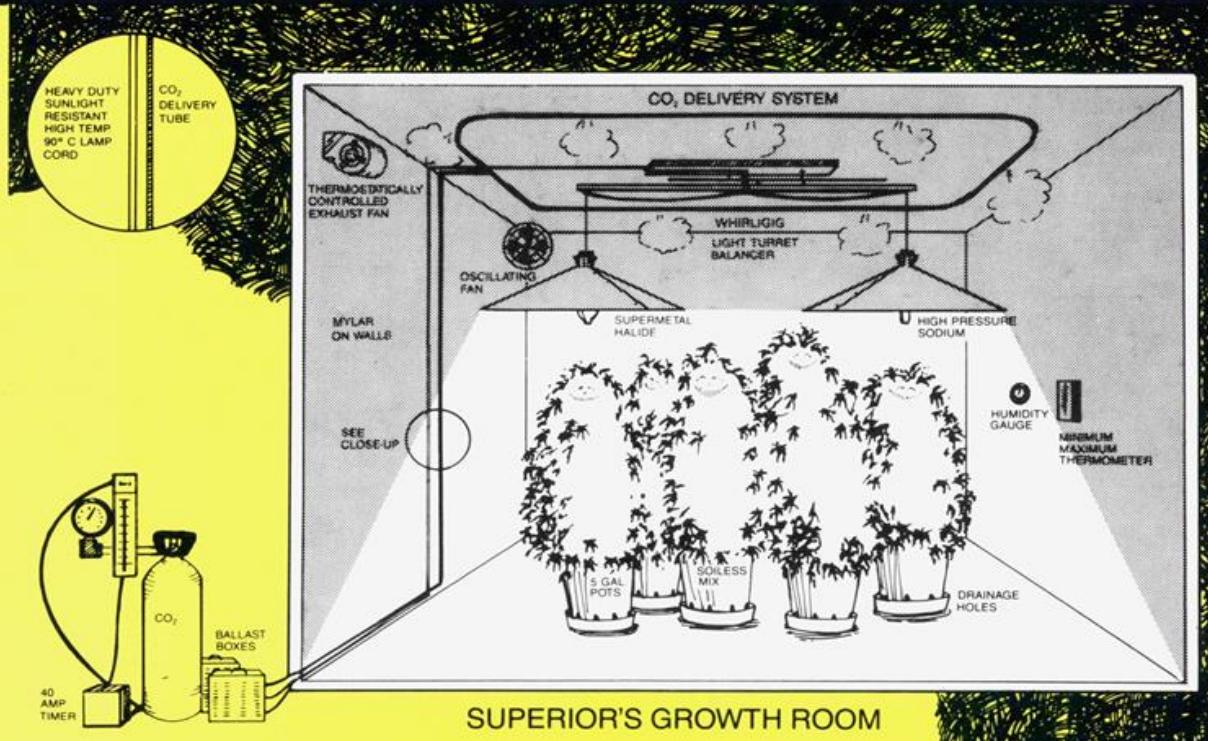
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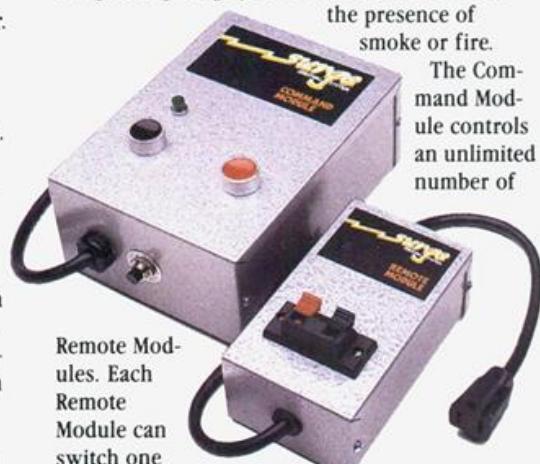
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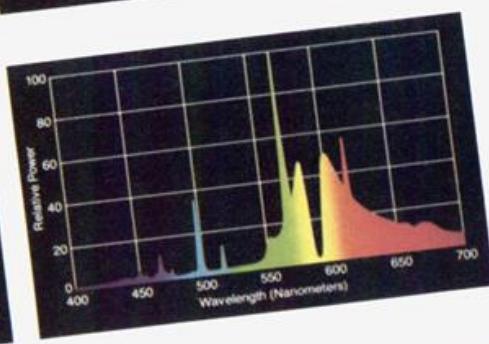
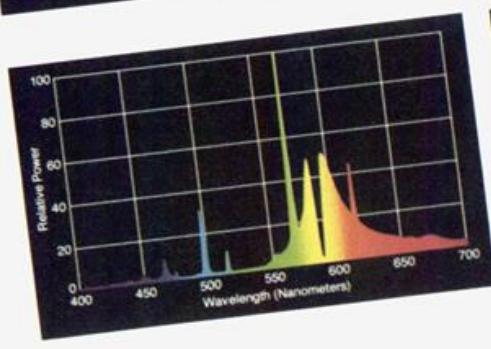
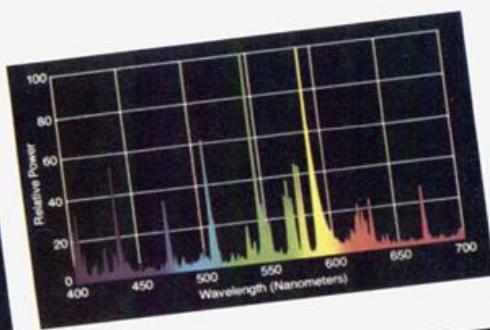
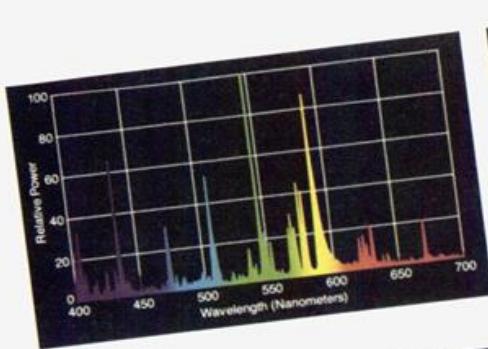
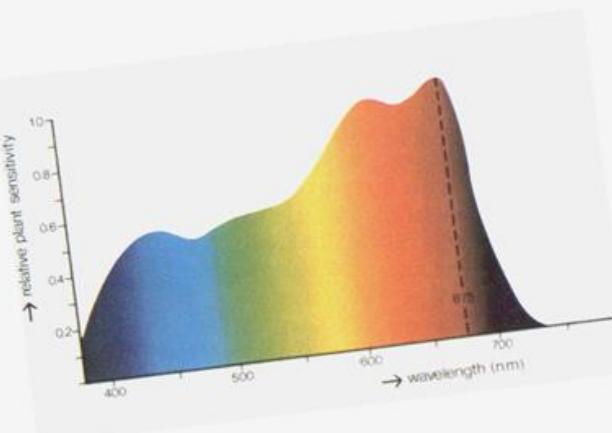
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# PLAY 15 QUESTIONS WITH HIGH TIMES AND WIN!

Calling all readers! Your favorite rag needs help! We know surveys aren't your favorite way to spend time, but it's the only way we can find out what's going on in that head of yours. If you reply, you could be chosen in a drawing to receive a **HIGH TIMES** gift: first prize, a **HIGH TIMES** jacket; second prize, a **HIGH TIMES** subscription; third prize, a **HIGH TIMES** T-Shirt. So sit back, light up, and answer the questions!

1. Are you \_\_\_\_\_ male or \_\_\_\_\_ female?

2. What is your age?

under 18

18-22

23-29

30-40

40 or older

3. What is the highest level of education you have completed?

high school

two years of college

college

graduate school

(If currently a student, check here and specify which level: \_\_\_\_\_)

4. Are you:

employed

self-employed

unemployed

5. What was your income last year?

less than \$10,000

\$10,000-14,999

\$15,000-19,999

\$20,000-29,999

\$30,000-39,999

\$40,000-49,999

\$50,000 or more

6. How many people (besides yourself) read your copy of **HIGH TIMES**?

none

1-3

4-8

9 or more

7. How often do you buy **HIGH TIMES** on the newsstand?

1-3 times a year

4-6 times a year

7-12 times a year

8. Have you responded to at least one mall order ad in **HIGH TIMES** in the last year?

yes  no

9. Do you (check if "yes"):

own a VCR

buy at least 1 video every 3 months

rent videos

tape your own videos only

buy at least 1 audio cassette a month

buy at least 1 compact disc a month

buy at least 1 book a month

buy beer or wine at least once a month

buy liquor at least once a month

10. Have you (check if "yes"):

bought indoor garden supplies in the last year

bought home safety or security devices in the last year

bought at least one **HIGH TIMES** product in the last year

11. My favorite department(s) in **HIGH TIMES** is (are) [Please rank in order from 1 to 11]:

Flashes

Highwitness News

Ask Ed

The Great Indoors

Grow American

Case in Point

Trans-High Market Quotations

High 5ives

Rushes

Top 40

Centerfold

12. My favorite **HIGH TIMES** feature article(s) in the last year was (were):

\_\_\_\_\_

\_\_\_\_\_

13. I would like to see more coverage of:

health issues

politics

music

comics

travel

drugs other than marijuana

other

14. I wish **HIGH TIMES** would:

\_\_\_\_\_

15. Besides **HIGH TIMES**, my favorite magazines are:

Rolling Stone

Heavy Metal

Star Hits

Spin

National Lampoon

Mad

Mother Jones

Whole Earth News

Omni

Discover

Easy Riders

Soldier of Fortune

Other

**BONUS QUESTION:** What made you buy this issue of **HIGH TIMES**?

cover

centerfold

THMA/Q

Highwitness News

Ask Ed

Great Indoors

Top 40

ads

Other

**Send your reply to: HIGH TIMES, Dept. S-2, 211 E. 43rd St., New York, N.Y. 10017.**

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## DEAD HEAD SPEAKS

Just a note to tell you I really enjoy your magazine. You're getting better again after a long spell of not really having much useful info, but one question: why is HIGH TIMES so exorbitantly priced? Could you print a pie sometime that shows where all the profits go? Also, something that concerns me is the coverage the Dead have been getting in the magazine. I love the Dead, but a letter printed in THMA in October said "how easy it was to score acid at a Dead show." Such letters are just an invitation to police. Acid isn't *that* easy to score at a Dead show. In the course of seeing the Dead, I've seen many a poor hipster brutalized and humiliated by police without any provocation by the bustee. I've also seen a lot of bad vibes due to "party animals" who, hearing tales of lots of drugs at Dead shows like the one you printed, show up and abuse drugs and alcohol, and others' "space." Generally, Dead shows are very mellow, yet joyous events where personal freedom is high and people only use (not abuse) drugs to augment the great high from all the nice people and great music. So, please in your Dead Issue, try not to bring the heat down any further on us Dead Heads and HIGH TIMES readers, 'cause just as the Haight dissolved due to the busts and influx of hustlers brought on by excess publicity about good drugs and vibes, so could the Dead scene.

—Dead in West Virginia

We get a few complaints about our price, but the only way to lower it would be to greatly increase our circulation (meaning turning the magazine into a yuppie consumer rag), or drop all color pages and photographs. However, we believe our readers are more interested in quality photos despite the cost. The best way to save money is to subscribe. HIGH TIMES operates with a skeleton staff, pinches pennies whenever possible, and manages to make ends meet each year. There are no fat cats getting rich off this magazine.

## EARLY HEADS

Finally, an article about the "missing link" of psychedelia, The Chocolate Watch Band! (HIGH TIMES, November '86.) You guys sure are getting your historical shit together. Next month, let's see something on the granddaddies of cowpunk: the 13th Floor Elevators.

—S. Smith  
Woodstock, New York

Hey, we go all the way back to Blind Orange Julius. We're talking serious culture here, Smith.



continued from page 8

## GOUGE GOP'ERS

Two things can bring down the price of grass—more homegrown dope and less demand. I'm doing my part by growing my own and reducing the market size by not selling to known Republicans. It pisses the hell out of me when someone who voted for Reagan bitches about the pot shortage. Screw them! I call on all readers to make those responsible suffer. NO GRASS TO REPUBLICANS!!

—Head Head  
Santa Monica, California

Okay, but just one exception: Attorney General Edwin Meese, whose Justice Department last winter rolled up the main "anti-drug" activists of the Lyndon LaRouche organization, and threw them in jail with no bail on obstruction of justice charges. Shouldn't sweet old Eddie Meese be allowed to take a little boo in the privacy of his home, just for giving the national concerned-parents bunch such a neat little kick in the slats? And if the Republicans continue to demonstrate an improvement in their orientation toward pot—by jailing all those other obvious "anti-drug" criminals who run the workplace-urinalysis racket, maybe—then eventually we could forget all this political nastiness, and have a good old-fashioned, kickass smoke-in the White House Rose Garden!

## SEE NO PEE

There are now companies that offer the service of "piss observation." Something is seriously wrong with this country if this trend is allowed to continue. Count me in on Ed Hassle's "Circle the White House" march next summer.

—Samurdoch  
Normal, Illinois

Professional pisswatchers, huh? Who watches them to make sure they don't lick up a little on the sly, the sleazy perverts?

## NEUTRALIZE RAYGUN

Right on to Ed Hassle's idea that we send in votes to "dump Reagan!" The time has come to pull in tight on the running dog's choke collar. However, I'd like to slightly amend the suggestion to: "Neutralize Reagan." Lest any of you fear that voting in such a way would endanger you with the Secret Service, let us remember that Ron explained away the advice to neutralize public officials in the CIA-authored contra manuals as simply asking government officials that they no longer remain in office. Pot's an herb, Reagan's the dope!

—Johnny Too Bad  
Boston Area Commando  
Marijuana Peoples Liberation Army

## PISS ON TESTS

I read with interest the November installment of "My Amerika," and must say I'm glad to see it back. In regards to Ronald Reagan taking the number 40 spot in the Top 40, I believe we must accept one of two possibilities: either there is a large number of federal law enforcement employees reading HIGH TIMES who have started a conspiracy to change the content of your magazine, or (more likely) the vote was a misprint.

Well, sure! They happen all the time! I'm almost positive it was supposed to read *laughing at Ronald Reagan* and the first part got lost. Just another thought on this piss test business: if so many are against it but afraid to speak up, why not try guerrilla tactics? Go on and hit 'em where it hurts. If they play dirty, why shouldn't we? For starters, employees can constantly urinate on the walls and floor in the bathroom of a company that imposes urine testing. They'll get tired of the stench and maybe get the message. Try that and some graffiti in the executive rest room. If that doesn't work, try mailing excrement samples to the employers at home and work who support urine testing. Make sure to use an opaque container so they'll have to open it to see what's inside!

—D.C.  
Clearwater, Florida

DAVID ALLEN

# NORML = IZER

## Morality: Actions Speak Louder than Words

By JOHN GETTMAN,  
NORML Director

**M**arijuana reform will not occur unless we are willing to confront it as a moral issue. Remember, reform movements are characterized by an almost excessive concern with morals and moral conduct. What, then, is the moral aspect of our cause?

When we, the proponents of marijuana reform, argue about this issue, we argue that marijuana prohibition constitutes an abuse of authority on the part of our various governments. Our opponents counter with an argument that we have abused our freedom and that governmental action is required to protect society from our immorality. And there the debate rests, with each side reflexively changing the subject and ignoring the other side's points.

Unless we learn to argue the moral question, we will forfeit the most powerful weapon we have—the power of an idea whose time has come. Otherwise, we're faced with a deadlock, and the tie always goes to the champ, not the challenger.

First of all, we must examine the morality of our government officials, not in their private conduct but in their public responsibilities. One of these responsibilities is to provide leadership. Moral leaders bring us together; immoral leaders drive us apart. Franklin D. Roosevelt, for example, united the country and brought us out of the Great Depression. By contrast, Ronald W. Reagan has divided the country on issues such as abortion, school prayer, civil rights, and arms reduction. Reagan has become successful politically by emphasizing the ideological differences among us.

On the issue of drug use, moral leadership would require that a compromise be reached between two adversary groups, the people who want drugs out of the schools and the adults who don't want to go to jail for smoking marijuana. Other approaches are irrelevant simply because they ignore the real problem: the deepening division in our society between these two sizable groups. It is impossible for either to overpower the other politically, leaving our leaders with one of three choices: embrace a standstill, resolve the stalemate, or duck the real problem altogether. Most of our politicians lack the moral convictions to strike a compromise.

Their moral shortcomings do not end there. I contend that legislation against mari-

juana use and its cultivation by adults is itself immoral. It is merely irresponsible for legislators to pass unenforceable legislation, but it is immoral for them to pass laws that the government can enforce only by breaking the law itself. Just as a failed leader is marked by two factions working against each other, a failed government is marked by laws that are at cross purposes with each other. Furthermore, it is immoral for the government to put its citizens into a no-win situation, to invent dilemmas in which moral values become mutually exclusive, and where moral choice becomes overwhelmed by raw self-interest.

The American Revolution was fought to preserve the right of conscience of any individual to make up their own mind. We, as Americans, would consider it immoral (and illegal) for the government to declare, for example, that secular humanism is the official state religion. This would create grievous conflicts of interest for, say, a fundamentalist Christian who wants to be true to both religion and country. The marijuana laws create similar conflicts of interest. Marijuana smokers have to contend with the conflict between their desire to respect the law and their desire to preserve their right to privacy. To create this sort of conflict in values is immoral. But the moral conflicts get worse.

When one of us gets arrested for marijuana possession (and are not fortunate enough to live in a decrim state), we are forced to endure another moral dilemma. It's simple: be immoral and turn in a friend, or be moral and go to jail.

The marijuana laws put every marijuana smoker into this predicament. Marijuana prohibition forces us to choose between the two, to choose our self-interest over the good of society. Since we value our right to privacy, the law forces us to choose self-interest over respect for the law. Since we value our freedom, the law tries to force us to act in our self-interest and turn in our friends rather than go to jail. Since we value our reputations, the law forces us to act in self-interest and keep a low profile rather than to speak out for what we believe in.

The marijuana laws attempt to make us choose self-interest over moral values, over respect for the law, over respect for the trust of our friends, and over our sense of responsibility to our community. The marijuana laws are immoral because they prevent us from acting morally and ethically according to our

own conscience. This is precisely the situation the founders of our government sought to prevent: a government that coerces the citizenry into actions they, the citizenry, deem to be immoral.

Not only are the marijuana laws damnable because they incite immorality on the part of both the governors and the governed, but they are immoral in their stated intent as well. Presumably, the laws punishing marijuana use as a crime are morally defensible as being for the good of the user because the poor, immoral marijuana smoker needs help. Even if marijuana abuse were a debilitating problem for someone, arresting them doesn't help treat their problem, it simply punishes them. A moral approach would offer treatment rather than punishment. Furthermore, the threat of punishment actually drives people away from the community and away from help if they need it.

Morality is a lot easier to talk about than it is to practice. Witness any politician talking about the drug issue, and then examine their record. We will succeed when we not only take on the moral aspect of the marijuana issue, but when we practice it.

When we break a law without seeking to change it, we are acting immorally. When we turn in a friend to escape a marijuana conviction, we are acting immorally. When we pretend we don't use marijuana because it's easier to do business as a straight person, we are acting immorally. When we refuse to support reform efforts, we are acting immorally. When we ignore the arrest of over 450,000 of our neighbors each year for marijuana offenses, we are acting immorally. In fact, we are acting just the way our government wants us to act. They want us divided so they can continue to conquer us, manipulate our different interests, and prevent us from challenging their power.

**NORML has this response: our only interest is justice.** We will not rest until ours is a just society. We will not be corrupted by self-interest into immoral actions that serve the cause of injustice. We will not abandon our friends, our principles, or our moral values. For us, and for you if you join us, our cause is just because we are engaged in the moral activity of bringing people together, not merely surrounding ourselves with seemingly moral statements whose real effect is simply to drive us apart. Talk is cheap. We want action. ●

# PHOTOTRON®

## PIONEERS IN THE MODERN ERA OF RESEARCH ON THE MINERAL NUTRITION OF PLANTS...ONE OF THEM WILL CHANGE YOUR LIFE



LUTHER BURBANK lived from 1849 to 1926, and not before or since has there been a greater contributor to plant development. Every domesticated fruit or vegetable or flower has been produced by Mr. Burbank directly or by his methodology.

Mr. Burbank's methodology was extremely simple: (1) First he would GATHER the most extensive seed stock of a particular species from all over the world. (2) Then he would PLANT all of the seeds closely together. From the resulting ten thousand plants, he would (3) SELECT one or two that had the most pronounced characteristic of size or shape or scent or color or whatever he was looking for. (4) From those one or two plants, all of the seeds were PLANTED and from the resulting ten thousand plants, only one or two would be (5) SELECTED that further developed more of the desired characteristic. This process of planting and selection would be repeated as often as necessary from a few generations to hundreds of generations until Mr. Burbank would release the final seed stock to the rest of the world.

Mr. Burbank grafted one hundred different types of apple branches onto a single apple tree and each branch bore a completely different fruit the first year for his personal selection. Inventing this grafting technique, he squeezed thousands of years of research into a few. The results of his work, from potatoes to apples to EVERY domesticated fruit, vegetable or flower, are what we grow today.

**The Burbank Potatoe Quadrupled World Production in One Year. Luther Burbank never needed a lot of space. In his lifetime he conducted over one hundred thousand series of experiments and changed the world on less than three acres of land.**



DENNIS ROBERT HOAGLAND, 1888-1949, was the inventor of the "four salt Hoagland solution" from which all HYDROPONICS are based. Although a brilliant botanist, Dr. Hoagland was interested in only one thing, the BIO-MASS (size and weight) of the TOMATO produced hydroponically. Working under the scientific assumptions of the early 1900s, Dr. Hoagland's world assumed four things:

A. Plants had a life cycle leading to death. WE NOW KNOW plants have a very different way of achieving a life and death cycle than does the human being. Humans are more genetically structured toward their life and death cycle than plants. Plants allow environmental factors to control not only their life and death cycle but their sex as well. Such things as (1) "PHOTO-PERIOD" (length of time under light and dark), (2) "THERMO-PERIOD" (length of time under temperature variation), and most importantly (3) "NUTRIENT PERIOD" (length of time under a given nutrient configuration).

B. Maximum SIZE and WEIGHT before death of (a) root, (b) shoot, (c) fruit—known as the "root to shoot to fruit ratio"—was the absolute goal. WE NOW KNOW the "root to shoot to fruit ratio" is a fallacy. There is no such thing. While keeping the fruit exactly the same size as normal, both the root (below the soil) and the shoot (above the soil) can be minimized. And by reducing the inter-nodal lengths\* (distance between the budding sites from an average of 6 inches to less than 1 inch), the number of the normal sized fruit will increase to thousands per plant. (\*Footnote: See inter-nodal length graph at top of page 12.)

C. Plant "lush feeding" of excess nutrients meant nothing. WE NOW KNOW plant "lush feeding" kills the plant. The basis of the hydroponic method is that a fresh nutrient supply be pumped in while the used nutrient supply drains out. This allows the plant to absorb excess amounts of calcium. If allowed, the plant will absorb 10 times what it requires of calcium to the exclusion of other more beneficial nutrients like N, P, K, Mg, Na, Cl, etc. Too much calcium and the plant gets GARDENING OF THE ARTERIES and dies after one seasonal growth period.

D. An aqueous (water) based system without a "buffer" (soil having a cation exchange capacity, C.E.C.) was best. WE NOW KNOW an aqueous (water) based nutrient solution surrounding the root system without a "buffer" to protect the roots creates a "water root"—a thick, fleshy root that has layered itself with "fat" to protect itself. Nowhere near the amount of root surface area is produced hydroponically (water based) as when the roots are buffered against excess concentrations by a soil medium.

WE NOW KNOW that the soil mediums used by Dr. Hoagland, such as perlite vermiculite, and sand have no buffering action or "CATION EXCHANGE CAPACITY" (C.E.C.). The CATION EXCHANGE CAPACITY of a soil medium is the ability of that medium to ABSORB AND RELEASE a nutrient solution. The cation exchange capacity of the soil medium protects the root system and allows it to produce thousands more root structures, producing thousands more square inches of root surface area. The greater the root surface area, the more efficient the nutrient uptake for faster growth.

The early 1900s did not have the advanced technology of 1986. Equipment for testing nutrient solutions and plant tissue such as the gas-liquid chromatographic assay (GLC), Thin-Layer chromatographic assay (TLC) and sophisticated atomic absorption equipment were not available.

With the aid of the computer since 1951, the medical profession by comparison has advanced in the last 30 years more than in the preceding 2,000 years. If Dennis Robert Hoagland had access to 1986 technology in 1920, he never would have designed the hydroponic system.



JEFFERY JULIAN DEMARCO, 1951-\_\_\_\_, is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONIMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponimetrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A specific METHODOLOGY for plant growth and manipulation (instructions). 3. A very specific NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual PHOTOTRON. The exact nutrient calibrations are individually calibrated based upon two soil samples taken from the phototron: one after FORTY-FIVE DAYS of plant growth and one after 90 DAYS of plant growth—ONLY TWO ARE REQUIRED.

Mr. DeMarco's Masters thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1976 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant (not just the SIZE and WEIGHT, but utmostly important to study the MOLECULAR and PHARMACOLOGIC properties of the plant). The research developed in pursuit of Mr. DeMarco's research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas-Liquid Chromatogram (GLC), Thin-Layer Chromatogram (TLC) and Atomic Absorption.

THC-delta 9, the psychoactive molecule produced by the marijuana plant, is so microscopic that 100,000 molecules fit end to end would sit on the head of a pin. When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a "root to shoot to fruit" ratio requires a large root and a large shoot to grow large fruit.

Growing plants Pyraponimetrically (by exactly measuring all 21 environmental elements), requires the plant to produce minimal root, minimal shoot (inter-nodal lengths) and maximize the number of budding sites and size of the bud, flower or fruit.

To develop the (A) PHOTOTRON, (B) the CHEMISTRY and (C) the plant manipulation methodology known as GROWING PLANTS PYRAPONIMETRICALLY, the marijuana plant was used because of its unique properties.

The PHOTOTRON was designed to: (1) GROW 6 PLANTS THREE AND ONE-HALF FEET TALL IN 45 DAYS; (2) Duplicate exactly the quality of the plant material the seed came from; (3) RE-FLOWER AND RE-BUD PLANT MATERIAL EVERY 45 DAYS UP TO 9 TIMES PER YEAR; (4) NEVER KILLING THE PLANTS, YEAR AFTER YEAR; (5) BE REMOVED FROM EVERY DAY. (The system is designed for plant removal, not containment); and (6) To produce 6-8 ounces of plant material every 45 days.

Growing Plants Pyraponimetrically will revolutionize indoor plant production as we know it today. At PYRAPONIC LABORATORIES, over 25 PHOTOTRONS are used for new experiments. To date, PYRAPONIC LABORATORIES have successfully catalogued 17 varieties of flowering plants, 14 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.

\*\*\*\*\*  
A year, or two years from now, PYRAPONIC INDUSTRIES will mass market the PHOTOTRON through the major retailers, on television and radio. I will look forward to working with you. Thank you very much.

*Jeffery Julian DeMarco*  
Jeffery Julian DeMarco  
President and Founder Pyraponic Industries

1-312-544- B-U-D-S

# PHOTOTRON

OVER 3,000 SOLD.

## HAWAII VS THE PHOTOTRON

Hello, my name is Jeffery Demarco, President and Founder of PYRAPONIC INDUSTRIES

My masters thesis is on the cannabinoid profile of marijuana. I tell you this for historical foot note only.

In pursuit of my own masters thesis, I generated the most extensive popular literature library in the world. Then, I generated the most extensive scientific bibliography in the world. I then went into a laboratory under Federal license at a major university in which I designed a laboratory grade growth chamber called the PHOTOTRON.

If you read all of the popular literature, I did. All of the scientific literature, I did. And look at every apparatus that is in High Times, you will find one common denominator. Every system, UP TILL NOW, has attempted to re-create Hawaii. I suggest that when you finally achieve the re-creation of Hawaii, you can do NO BETTER than Hawaii's results. AND WHAT ARE HAWAII'S RESULTS?

In fact you will grow the plant 6 to 9 months, 6 to 12 feet tall. In fact you will average a 6 inch internodal length, (distance between budding sites). In fact have a 10% budding ratio at the tops of the plant. In fact, throw away 90% of the plant material (leaves/shake). And in fact YOU MUST START ALL OVER AGAIN.

Look. The only thing I'm waiting nine months for is a baby, number one. Number two, I do not want a tree in my house. And number three, I am not going to pay the ELECTRIC BILL TO PRODUCE THE SUN somewhere in my closet. Do not let its pretty looks fool you. Do not let its size (3 1/2 feet tall x 18 inches wide) fool you. Do not let its weight at 17 lbs fool you.



The PHOTOTRON will draw \$4.00 per month in electricity (average). My system is totally different.

In fact you will grow 6 plants, three and one half feet tall in 45 days, guaranteed. You will maintain a one inch internodal length, guaranteed. That each plant will produce 1,000 budding sites, FROM TOP TO BOTTOM, guaranteed. And there will be 6 plants per individual PHOTOTRON, guaranteed.

And this is the only system in the world where you can re-flower and re-bud the exact same plants every 45 days, up to nine times per year without killing them off, EVER. Then, you may re-flower and re-bud the exact same plants, every 45 days up to nine times per year, while you remove from the system every single solitary day. Every day (average 6-8 oz. every 45 days). You remove from the PHOTOTRON every single solitary day, beginning on day 20 from seed germination.

I personally, guarantee and service back the PHOTOTRON, so do not let its technical nature throw you. You will require THREE PAGES OF INSTRUCTIONS ONLY. Because the system is TOTALLY COMPLETE. You will do three things: 1. Select your seed. 2. Plug the system in. 3. Water it.

Then.. if you have any questions at all. You may call me directly. Ask your question. Get the answer. And carry on about your business. You cannot fail with my PHOTOTRON. I do not allow any of my PHOTOTRONS to fall below SHOW-CASE, I have personally guaranteed every PHOTOTRON that has ever been sold. And I have never had one returned. I am not starting now.

So, call me. Right now. I accept all of my phone calls, personally.

"If you do not learn more about plant production than you have ever learned before, I will pay you for the call."

*Jeffery Julian De Marco*

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LIGHT	LEAF SELF SHADING	LINEAR FEET OF LIGHT	SPECTRUM ADJUSTABILITY	CUSTOMER DESIGNED FOR EACH SYSTEM	GUARANTEE FEMALE SEX	NEVER KILLS THE PLANTS	ONE-INCH INTERNODAL LENGTHS = 1,000 BUDDING SITES PER PLANT	RE-FLOWER AND RE-BUD SAME PLANTS/EVERY 45 DAYS UP TO 9 TIMES PER YEAR	TOTALLY SELF-SUFFICIENT TO LEAF SATURATION	RE-SERVICE HOT LINE FOR QUESTIONS
CO <sub>2</sub> SERVICE										

"If you do not learn more about plant production than you have ever learned before, we will pay you for the call - 312-544-8008."

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GROWING PLANTS PYRAPONIMETRICALLY - SEND \$3.00 TO:  
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\*photograph presented from university conducted research for Masters Thesis entitled "Factors Controlling Resin-Production and Plant Growth," pertains to any plant.\*

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# PYRAPONIC LABORATORIES: GROWING PLANTS PYRAPONIMETRICALLY

**PYRAPONIC LABORATORIES MAINTAINS:** (1) The most extensive scientific literature library in the world. (2) The most extensive popular literature in the world. (3) The most extensive library of Data Packages and Soil Analysis selected from over 3,000 PHOTOTRONS sold worldwide. (4) On premises, over 25 PHOTOTRONS with the capacity of three shelves each so that up to 75 experiments may be ongoing at any one time. Jeffery Julian DeMarco, President and Founder of PYRAPONIC INDUSTRIES and PYRAPONIC LABORATORIES, maintains his PHOTOTRONS for the purpose of killing plants. It is only after experimenting with the parameters of death at PYRAPONIC LABORATORIES that the PHOTOTRON can perform so miraculously around the world. Said to be the number 1 herbicidal maniac, Mr. DeMarco has full-time laboratory technicians on staff and has the most extensive technical consulting network from Universities around the world. PYRAPONIC LABORATORIES maintains the most sophisticated on-premises computerization for data analysis and retrieval in the world. Thousands of experiments have been conducted and thousands more will be ongoing to expand ever further the performance of each PHOTOTRON. As PYRAPONIC LABORATORIES introduces new methods or nutrient formulations, each PHOTOTRON owner is contacted so that every PHOTOTRON is upgraded long after it has been purchased.

**THE PHOTOTRON IMPROVES MORE AND MORE THE LONGER YOU OWN IT!**

## GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



Young tomato plants in vegetative stage.



Young tomato plants beginning to flower and fruit.



Fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

## GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



Typical testing pattern by Pyra-Plants near top of Phototron depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



Plants filling the Phototron in less than 45 days.



Tremendous flowering and fruiting less than an inch apart.

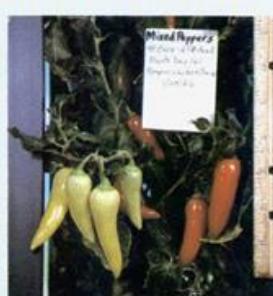


"Normal" fruit development with a reduced root-to-shoot ratio.

## HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Herbal garden at 65 days of Parsley, Sage, Basil, Oregano, Thyme and Chive.



The hottest jalapeño pepper grown anywhere in the world.



Laboratory experiment producing complete root systems on the stem structures of flowering marigolds.



"Normal" marigold flower size produced with reduced root-to-shoot ratio.

## GROWTH PATTERNS OF ZINIAS AND SNAPDRAGONS GROWN PYRAPONIMETRICALLY



Day 44: Phototron jammed with flowering zinias.



Day 52: "Normal" zinia flower size produced with reduced root-to-shoot ratio.



Day 46: Phototron jammed with flowering snapdragons.



Day 58: "Normal" snapdragon flower size produced with reduced root-to-shoot ratio.



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# HIGHWITNESS NEWS

## 'ZOMBIE COKE' PLAQUE MENACES U.S. STREETS!

by Dean Latimer

NEW YORK CITY

**I**t seems that the woman had been freebasing coke—not crummy old crack freebase, but swanky, high-society, East Side toot imported uncut from Miami—for a night and most of the morning, when she began to see and hear things that weren't really there. As the hallucinations set in, awful animal hallucinations in 3-D technicolor, the inside of her mouth and throat dried up so badly she could hardly swallow or croak out a plea for help to her husband downstairs. He got their doctor and they got her to a hospital, where she spent two days in a private ward, crazy as a loon, inwardly possessed by animal spirits, outwardly catatonic, staring at nothing, toadlike. The diagnosis was viral encephalitis. On the third day, though, she returned from the dead, her former self entire, with just the vaguest recollections of flying around the stratosphere with jaguars and tigers and great violent birds with black beady eyes: "Like Carlos Castañeda wrote about in that crazy Don Juan series," she told me much later, more embarrassed than anything else. "Exactly like that!"



Her doctor had been good enough to palm a petrie-dish full of her stash from her bedside table and send it off to a private lab for analysis. The chemists there, when they heard what her symptoms were like, were smart enough to check it for tropacocaine. "We think it may be tropacocaine," they phoned back while she was still sitting toadlike on the ward. So her doctor, who knew about tropacocaine, knew better than to treat this woman with Valium or Thorazine for her tropacocaine psychosis.

### Tropacocaine Death Syndrome

Not everyone who gets poisoned with tropacocaine enjoys such top-notch medical and chemical assistance, and so some of them die. The latest one I've heard about was checked into the James Arthur Smith

*continued on page 22*

# A Brief and Murky History of TROPACOCAIN

The Merck Index (yes, it's named after the same immortal Darmstadt, West Germany, chemistry dynasty that first merchandised pharmaceutical-quality cocaine in the 1870s) lists "tropacocaine" among its thousands of chemical compounds. Merck's thumbnail description of tropacocaine's properties shows that virtually no methodical studies have ever been done to elucidate its toxicity in humans. This is obviously because tropacocaine, as the Index mentions, has only shown up in nature in a variety of coca plants that were growing in Java, in the Indonesian archipelago in the South China Sea, early in this century.

In the early '20s, copious mention was made of these Javanese coca plants (*Erythroxylon coca var. Spruceanum Burke*) in the course of a typically shrill inquisition into the international dope trade conducted by the House Ways and Means Subcommittee. The Javanese by that time had taken to growing their coca shrubs as "living hedges," useful for boundary borders and topsoil-holding, though no one there was chewing their poisonous leaves to get high, or the witch hunting Rep. Harrison Rainey would've been screaming to the high heavens over it. There was enough screaming in Congress about the 1,200,000 kilos of coca leaves Java was exporting annually to European drug companies, and the recent unaccountable appearance of coca plantations on the Japanese-occupied island of Formosa. The most recent reference to Javanese coca that I've been able to track down is the 1984 report of the Indonesia desk of the US State Department's Bureau of International Narcotics Matters, rejoicing that no coca leaves at all had been exported from Java in 1983. (Efforts to squeeze the INM for further information about Javanese coca are proceeding full steam, and ought to pay off nicely after this sees print.)

It seems it was the American

Parke-Davis drug company that, around 1900, transplanted some terraces of coca plants from Peru to its agricultural holdings in Java in hopes of developing an alternative to Andean coca production, which was then all tied up by the Merck dynasty of Darmstadt. Apparently within a single generation, the transplanted coca bushes virtually ceased producing cocaine and began producing unwholesome quantities of this nasty new alkaloid, tropacocaine.

"Basically, it makes sense," an extremely high-ranking source at a federal drug agency told me. "Speaking chemically, tropacocaine is a much stabler compound than cocaine. When drug-producing plants are placed under stress, they tend to produce unstable alkaloids. Coca is believed to be a jungle plant by nature, transplanted to the cooler, dryer Andean mountain slopes barely a thousand years ago by Quechua-speaking Indians. So when these plants were taken from their mountain slopes in the early 1900s and transplanted in an environment identical to their native jungle habitat, they naturally discontinued producing unstable cocaine, and replaced it with the more stable tropacocaine."

In fact, it was only recently recognized that an immensely

tall, sprawling jungle tree called *empadu*, which inhabits rain forests from Ecuador to Brazil, is really the coca shrub in its natural state, unstunted and unmolested by hundreds of generations of industrial terrace-tillage in the brutal altiplano climate. (This has incited some contemporary antidrug witchhunters in Congress and the UN to have all existing *empadu* plants located and eradicated, though if it turns out that their leaves are merely poisonous with tropacocaine, and not cocaine, this antidrug fury is likely to subside considerably.) The same thing could easily happen, eventually, with most of the coca currently growing in Bolivia. As HIGH TIMES has been chronicling throughout the '80s, there's been a systematic replanting of coca shrubs, from the high altiplano to the jungle valleys of the Santa Cruz Department in Bolivia, since the late '70s. This was undertaken by the professional *narcotrafficante* families of Bolivia because the wild jungle is so vastly better for purposes of narcotics security than the open, well-populated, and easily-militarized altiplano. In years to come, eminent *narcotrafficante* barons like Roberto Suarez of Santa Cruz will probably wind up with the blame for tropacocaine's existence, as though they'd deliberately manufactured it.

## Tropa-Toxicity

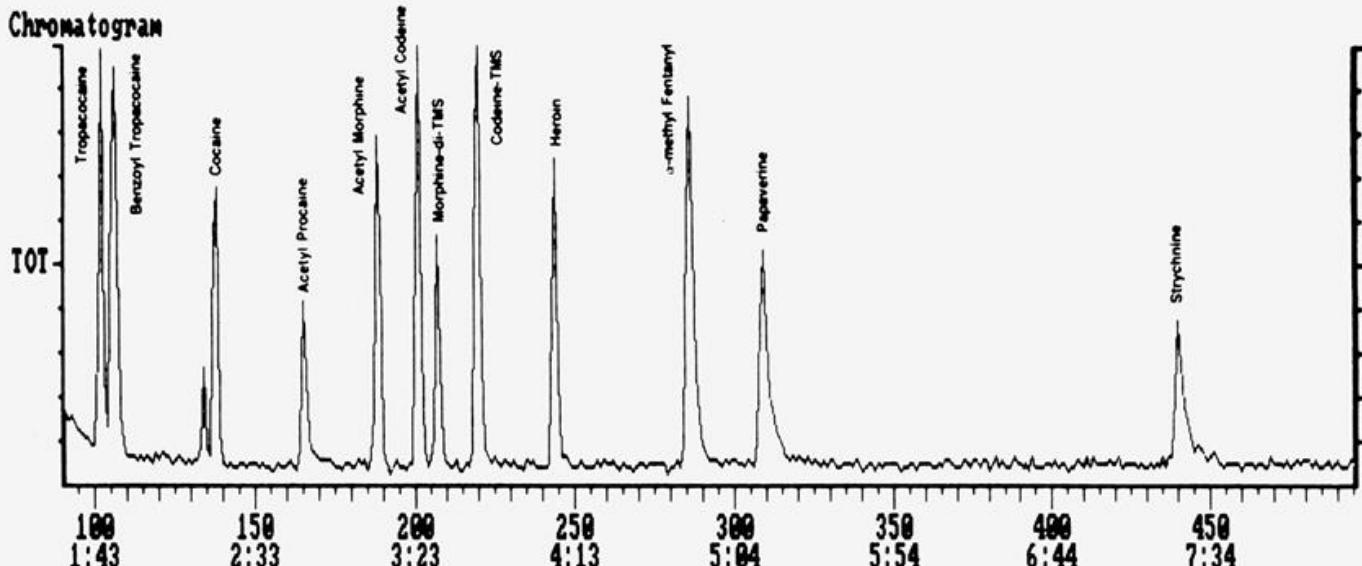
As to the exact physical dynamics of tropacocaine's toxicity in humans, no one is able to say anything for certain about it at this point. Merck observes that its pharmacology resembles atropine's (see main article). If, like atropine, it moves through the body much more slowly than cocaine does, then the first poisoning symptoms—dryness of the nose and throat, followed by delirium and hallucinations—probably wouldn't set in until a good while after the acute ef-

fects of the cocaine with which it's mixed. Thus the victim would most likely be misdiagnosed with "toxic cocaine psychosis" (which really isn't at all like atropine delirium) and be treated for it with sedatives that could combine dangerously with the tropacocaine.

If it does work like atropine, at least the central-nervous-system aftereffects of tropacocaine poisoning (in anyone who isn't killed by misapplied emergency-room therapies) shouldn't likely be a case for lasting concern to its victims. As late as 1930, belladonna alkaloids were the favorite detoxification drugs used by "professional" antidrug doctors to "cure" people of morphine addiction—a condition estimated to have afflicted individuals in one out of three American families before morphine went prescription-only in 1918. Members of good middle-class households flocked by the thousands to such famous "cure spas" as the Charles B. Towns Hospital on Riverside Drive in New York City. There, quacks like the eponymous Towns would maintain these poor wretches for days on end in states of out-of-touch belladonna delirium, with regular injections of atropine, hyoscyamine, and scopolamine (and a little *strychnine*, every few hours, to keep them continuously diarrhetic). After three to five days of this horror, during which they had been "painless purged of every last atom of morphia" (qua Towns), the patients were sent home "cured" and obviously none the worse, over the long term, because of it.

In fact, the poor wretches may have secretly enjoyed it. Nearly every single one of them, as a matter of record, proceeded to promptly re-addict themselves to morphine, so that they could take the belladonna "cure" again, and again, and again....

—D.L. ●

**Chromatogram**

**The first indication of government concern over tropococaine appeared late last year among the marketing materials for the new Finnigan MAT Ion Trap Detector (see page 24). Experts consulted by HIGH TIMES agree, though, that the spike labelled benzoyl tropococaine at the far left of this Finnigan chromatogram should probably be re-nomenclatured as benzoyl tropane.**

**T R O P A C O C A I N E**

*continued from page 20*

hospital in Homestead, Florida, over the first weekend in October 1986. Evidently he had gone crazy somewhere in public, because he showed up in the emergency room in custody and under restraint, wildly "agitated." Then he quickly went all toad-catastic, while his blood pressure cartwheeled crazily: 300 over 180 at one point. He next lapsed into a total paralytic coma. His body temperature shot through the roof, and a few hours later, this previously-healthy young white male simply stopped breathing. Forever.

The white powder that had been found in this person's possession had already been sent to a local commercial laboratory before he died, and they'd reported it positive for cocaine by their rudimentary testing procedures. On subsequent examination, after he was dead, the ultrasophisticated equipment at Toxicology Testing in Miami found just a little tropococaine in his stash.

"It was about one percent tropococaine," reported Dr. Lee Hearn, codirector of Toxicology Testing. "It may be so potent that it doesn't take very much to precipitate a full-blown reaction." Dr. Hearn recalls testing a sample in 1980 that showed up 50 percent tropococaine, 50 percent cocaine. It had been mailed to Miami's celebrated Up Front drug research facility, which is licensed by the Drug Enforcement Administration to receive anonymous submissions of street drugs for advanced analysis at Toxicology

Testing. (See box for details.) When this person later called Up Front to get the test results, they quizzed him a little about what had happened when he'd tried the stuff. He said he'd just snorted a couple lines of it, like usual, and gone out for a spin on the freeway, and wound up flying through outer space with wild animals; when he came to, he'd totalled his car against an embankment, and the police were relieved that he'd come out of his "concussion" unassisted.

Up Front's director, Jim Hall, recalls the person who, in late 1985, had been taken to a hospital by the anxious staff of a Miami motel, where the maids had noticed that he'd been sitting in his room for over 24 hours without changing position, staring toadlike at the floor. A sample of his white powder turned up one percent tropococaine. He was initially misdiagnosed with "catatonia," but he was thankfully *not* treated for it with phenothiazines like Haldol or Thorazine by the ER medics. So he lived, and came out of it after about 48 hours, and was fine again. He told a Centers for Disease Control investigator that he could vaguely remember seeing a lot of strange hallucinations and hearing weird noises all through the period that he was out of touch.

The name of the person who died in Homestead last October with tropococaine in his possession—and the question of whether there was any of that tropococaine in his bloodstream when he died in that horrible way—is known at this writing only to the Dade County, Florida, deputy medical examiner, Dr. Charles Wetli. Since 1983,

Dr. Wetli has been compiling depressing case histories for what he's dubbed his "Cocaine Sudden Death Syndrome." As we reported on this syndrome in the March 1985 issue of HIGH TIMES, it involves numerous cases in which South Florida people have suddenly simply stopped breathing—after a process of going crazy, lapsing into a coma, and sustaining radical changes in blood pressure and body temperature—with less-than-overdose quantities of cocaine in their bloodstreams. If all these people had been doing coke that was contaminated with tropococaine, then it was probably the tropococaine that drove them crazy and sent them to the hospital; if the hospital staff misdiagnosed them as suffering from acute psychotic attacks, and treated them for it with antipsychotic or antidepressant medications, then no wonder they died.

When we first wrote up Dr. Wetli's prospectus for his Cocaine Sudden Death Syndrome in 1985, we pointed out that in all these gruesome case histories, the victims had something else in common: in every single case, at some point or other, they'd been in the custody of Miami police officers. So maybe all these people had really been victims of those notoriously homicidal Miami Vice cops, we suggested, and maybe this Cocaine Sudden Death Syndrome is just another case of a county coroner shifting the blame for local police-squad improprieties onto a magic "killer drug." And maybe we were correct, too, at least in part. But it sure is tempting now to implicate tropo-

caine as the prime factor in most of these mortalities.

Dr. Wetli is expected to release a full report of last October's tropacocaine-associated mortality in Homestead quite shortly, most likely before this issue of HIGH TIMES reaches the stands. The Atlanta CDC is also expected to be reporting soon on tropacocaine in their *Morbidity and Mortality Weekly Report*. It's even conceivable that the Drug Enforcement Administration may be inclined to divulge some of the details from their long-running lab program to chemically monitor the prevalence of tropacocaine traces in evidence samples of seized street drugs, undertaken nearly ten years ago with the assistance of private lab corporations. By the time this article sees print, people may be as curious about tropacocaine as they were all last year about crack.

## "The Mandrakes Give A Smell . . ."\*

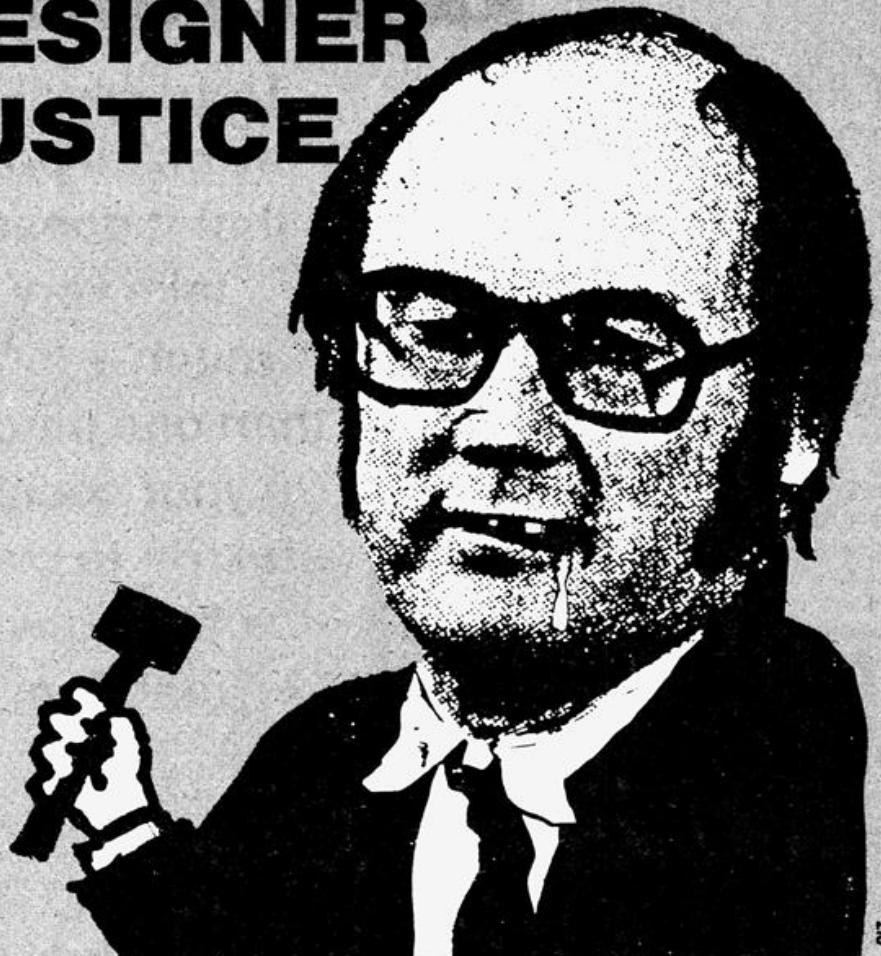
"Tropacocaine, chemically and pharmacologically, is sort of the bridge between the tropane coca alkaloids and the tropane belladonna alkaloids," Dr. James Woodford of Atlanta explains. A gentle-spoken, wickedly bearded chemist who specializes in delivering expert forensic testimony in narcotics prosecutions, Dr. Woodford has been studying tropacocaine for several years, mainly out of intellectual curiosity. "The belladonnas are fascinating drugs, atropine and scopolamine and hyoscyamine. They're produced mainly in various species of *datura stramonium* flowering plants: jimsonweed, mandrake, deadly nightshade, even the aboveground parts of potato and tomato plants. In humans, in low doses, they have antihistaminic effects: they dry out the mucous surfaces in your nose and throat, and they also make you a little sleepy. Plenty of over-the-counter antihistamines and sleeping pills are based on plant-derived belladonna alkaloids, mainly atropine.

"When you increase the dose of atropine just a relatively little bit, though," Woodford goes on, "awful things happen. The stuff can cause you to go crazy for days, just completely lose touch with reality and suffer continuous audial and visual hallucinations. In a lot of primitive societies, datura plants are used by tribal shamans for that specific purpose, as a sort of vision bush. It's also mentioned in the Bible, in the 30th chapter of Genesis and in the Song of Solomon. Evidently they used mandrake then as an aphrodisiac, somehow, which was how it was still being used in Italy in the 1500s, when Machiavelli wrote a comedy play about mandrake love potions, *La Mandragola*.

"But there's nothing sexy about atropine poisoning. It can kill you. And what I'm pretty convinced of now is that tropacocaine has all the same poisonous properties as atropine, only in even smaller doses. It gives me the shudders just to think about it. If I had any friends who snort coke, I'd make sure they heard all about this stuff."

Although the pharmacological and toxic

# DESIGNER JUSTICE



**When William Rehnquist was a mere Associate Justice of the Supreme Court, no one held his much-publicized addiction to ethchlorvynol (Placidyl, a powerfully hypnotic antidote for lower back pain) against him. He went through detox at Georgetown University Hospital in late 1982, was put on some mysterious "maintenance" drug, and the story was closed. Now that he's Chief Justice though, lawyers are wondering how he'll rule on landmark drug cases — such as the upcoming appeal of the San Jose "brain damage chemist," Roberto Calonga Cruz, charged by the DEA with making a species of synthetic heroin which has given permanent Parkinson's Disease to hundreds of its victims. Will Rehnquist be vindictive? Will he be sympathetic? STAY TUNED to Highwitness News for continuing developments in this thrilling story!**

properties of tropacocaine have never been systematically studied in humans (except maybe by the DEA, if they've bothered to look into this aspect of the drug), the assumption that it's a sort of super-atropine is supported by the description of atropine poisoning symptoms in *The Pharmacological Basis of Therapeutics*, the standard doctor's reference text on drugs (commonly called "Goodman & Gilman," after its senior editors). The progression of symptoms from low-dose intoxication to high-dose mortality is so breathtakingly identical to the symptoms described in Dr. Wetli's Cocaine Sudden Death Syndrome

that it's impossible to avoid the conclusion that some sort of atropine-type drug must be involved here.

"Any patient with an acute onset of bizarre mental and neurological symptoms," Goodman & Gilman advises physicians, "should be suspected of poisoning by drugs, including atropinic drugs." Atropine-caused delirium is not very commonly observed in emergency rooms, but it happens from time to time: "Poisoning occurs from overdoses of the many 'over the counter' sleeping medicines containing scopolamine, and from the purposeful ingestion, for hallucinatory

*continued over*

## TROPACOCAIN E

*continued from previous page*

effects, of nonprescription remedies containing stramonium and belladonna." †

Low-dose atropine poisoning results in severe dryness of the nose and throat, accompanied by giddiness and anxiety. With higher doses "the behavioral and mental symptoms may suggest an acute organic psychosis. Memory is disturbed, orientation is faulty, hallucinations (especially visual) are common, the sensorium is clouded, and mania or delirium is not unusual."

Though the precise fatal dosage of atropine in humans isn't known, it can kill in small doses: "Depression and circulatory collapse occur only in cases of severe intoxication; respiration becomes inadequate, and death due to respiratory failure follows after a period of paralysis and coma." All of this, from initial toxic psychosis to coma to respiratory failure, fits perfectly into the general outline of Dr. Wetli's Cocaine Sudden Death Syndrome of 1980-86.

As to the proper ER treatment of atropinic toxic psychosis, Goodman & Gilman designates *physostigmine*, the single plant-derived drug known to abolish the effects of belladonna alkaloids in humans. The classic antipsychotic drugs like Haldol and Thorazine, which doctors are likely to inject into any ER patient who comes in obviously ravaging crazy, under restraint, and out of control, will actually "synergize" with atropine, making coma and respiratory collapse even likelier. Physostigmine ("Antilirium") is not always available, however. "If marked excitement is present, and more specific treatment is not available, diazepam [Valium] is most suitable for sedation and for control of convulsions. ***Large doses should be avoided***, because the central depressant action may coincide with the depression occurring late in belladonna poisoning," Goodman & Gilman cautions [emphasis added].

Since at least 1980, therefore, it appears that a lot of people who've been taken to ERs and diagnosed with toxic cocaine psychosis, or acute schizophrenic attacks, or catatonia, or viral encephalitis, or whatever, may have really been victims of atropine-style tropacocaine poisoning. Most of them undoubtedly survived, even after being mistakenly treated with antipsychotic medications that only made their physical symptoms even worse, and were released. So far, only Dr. Wetli in Dade County has kept public count of the number of people in his jurisdiction who have apparently died after taking some belladonna-type drug. There are rumors that the New York City

†Yes, people do occasionally take atropine type drugs to see what the high is like. And after they've done it once, almost none of them would ever do it again willingly, even at the point of a gun.

## Tropacocaine may be so potent that it doesn't take very much—less than one percent in your cocaine stash—to cause a full-blown reaction.

Medical Examiner's office here has been quietly looking for tropococaine traces in the bodies of "cocaine overdose" victims, though an ME employee I asked about it recently was unable to confirm or deny the rumor.

### Hah! Tech!

Just before the Homestead tropacocaine death last October, a riot of speculation about tropacocaine was touched off in the professional forensic-chemistry community by the discovery that the DEA had been working for years with a private company to keep track of tropacocaine's prevalence on the streets of the United States. Finnigan MAT, Inc., a gigantic lab-services corporation with its headquarters in Europe and plants throughout the United States, quietly revealed this project last year by way of promoting their very latest drug-testing instrument: a truly beautiful "desktop" mass-spectrometry system called the Ion Trap Detector.

Considerations of space forbid me to properly sing the praises of this genuinely gorgeous, new, all-computerized atom-detecting and electron-shattering gimmick—which is too bad. "Your journal," I was reprovingly told by a Finnigan MAT representative from their US headquarters in San Jose, the last time we spoke: "Your journal, does nothing to promote the science of mass spectrometry. You do nothing to enhance the credibility of the field." If space only permitted, though, I would gladly enhance the daylights out of the Ion Trap Detector in print because it really is a lovely little instrument.

Even more enchanting, however, was all the stuff this same person had already told me about tropacocaine in several phone interviews over the previous couple of

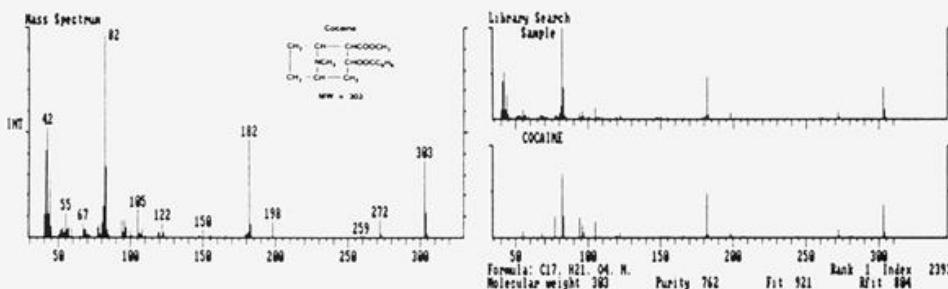
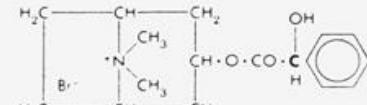
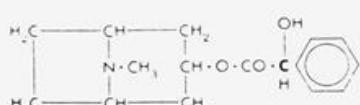
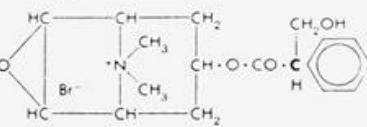
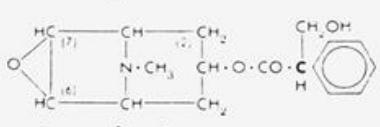
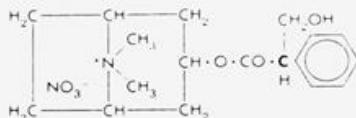
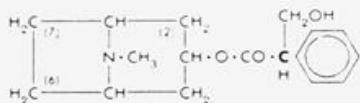
months, before the DEA finally heard that HIGH TIMES was sniffing around about this nasty stuff, and spoke very sternly with this person and his superiors at Finnigan.

"Finnigan MAT is working with the Drug Enforcement Administration," he told me last September, obviously reading from a prewritten marketing document, "to look into samples of cocaine, seized in various different parts of the United States, for the presence of tropacocaine. The DEA is concerned that the presence of this compound may be an indication that clandestine laboratories have begun to produce synthetic cocaine." He told me that the Finnigan chemists had looked at "many samples of tropacocaine, from several different geographical areas," and had seen contamination concentrations, in different samples of street coke, "ranging from just trace amounts to nearly 50 percent." He told me the DEA believes they can "fingerprint" whatever clandestine laboratories might be putting out this hideously toxic syntho-coke by examining the behavior of their tropacocaine molecules in the Ion Trap Detector's terrifically clever new electron-shredding chamber. That way, the DEA can bloodhound this poison back to its source, kick down the door, and roll those mass-poisoning narcotics criminals straight to prison. Correct?

Professional, legitimate chemists with whom I discussed all this were tremendously excited to hear about it, but a little cautious and curious. When bathtub chemists try to make synthetic cocaine, they generally either try to warp the *atropine* molecule (no kidding) around into cocaine, or they try to follow a certain devious 1900 formula by a German doc named Wiltstatter, as improved and elaborated in the 1950s by a mad Yankee genius named Findlay. Either which way, since they're just crazy bathtub chemists themselves, they're likely to wind up with plenty of crazy-making tropacocaine in the final batch, that's for sure.

Before you can conclude that all these tropacocaine samples collected by the DEA for Finnigan MAT came out of bathtub labs though, you have to surmount a couple of salient challenges to plain common sense. For one thing, to try to make even bad synthetic cocaine—by rearranging atropine, or by the devious Wiltstatter-Findlay formula—the chemist has to be ready to commit several hundred thousand dollars into a whole barnful of ultrasophisticated space-age lab devices, which no bathtub chemist would do, because if he or she had all that money to start with, they wouldn't bother dipping into the filthy old dope trade in the first place.

The second objection is even more inimical to the DEA's bathtub-lab theory. By starting with any known formula for synthetic cocaine, any chemist—even the



Above, a chart from **The Pharmacological Basis of Therapeutics**, showing how the basic atropine molecule can be warped into variously toxic "homologues," including cocaine. At bottom, a closeup "fingerprint" of cocaine, an atropine homologue, as traced by the incomparable Finnigan MAT Ion Trap Detector. If the Finnigan people had not been afraid to send a tropococaine "fingerprint" to **HIGH TIMES**, we would show it to you here.

DEA's own radically creative geniuses in the Southeastern Regional Lab in Miami—would necessarily come up with an undifferentiated mush of all *eight* possible isomers of the cocaine molecule. Whereas Mother Nature, in her truly supernatural slyness, never puts anything in coca leaf except the single *lefthanded* isomer, the levococaine isomer, evidently because *only* the levo-isomer would ever cause human beings to get high and waste all their money on coke, and so those seven other isomers just aren't needed. So they're not included in natural coca-leaf. One of the *sweeter* mysteries of the Universe, the unavailing lefthandedness of natural coca-leaf-derived cocaine.

But for any mere mortal who, out of greed, undertook to create synthetic cocaine from molecular scratch, this crook would always have *some* of these wholly-unnatural cocaine isomers in the final batch, no matter how thoroughly it was cleaned up. And if that same mortal, out of incompetence on top of greed, happened to create some *tropococaine* along with the synth-coke, then the final batch would also contain all eight possible isomers of tropococaine,

too. It would be "racemic," that's the technical nomenclature.

In our next-to-final interview, before **HIGH TIMES** magazine had become *absolute* garbage in Finnigan MAT's corporate estimation, I asked this extremely intelligent, well-informed, and courteous media spokesman in San Jose if all that tropococaine they'd been looking at was *racemic*, with all eight possible isomers. "I'm not sure," he confessed, appearing to be a little puzzled that this wasn't mentioned anywhere in the marketing materials. "I seem to *remember* that it was racemic...." I pointed out to him that in one particular Finnigan marketing chromatograph, depicting a tropococaine "fingerprint" by their beautiful Ion Trap Detector, the stuff had shown up as *two* spikes, two nearly-*"co-eluting"* peaks on the graph. I asked if that was because the entire molecule had split apart into two of its isomers—tropiene benzoate and psuedotropiene benzoate—while passing through the gas chromatograph's capillary column, on its way to the absolutely fabulous Finnigan MAT Ion Trap Detector. He allowed

*continued on page 29*

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## **MAJOR MARKETS**

<b>Berkeley, CA</b>	Humboldt bud, "green & sticky indica"	½-oz ½-lb	110 1150
	Thai, "smells like hell"	oz	185
	Shrooms	oz	75-100
	Doses (LSD), "straight from the park"	100	45-60
<b>Los Angeles, CA</b>	Coke, "rock from So. Cal."	½-oz	700
	MDMA, "nice & clean"	one ½-oz	8-10 550-600
	No. Cal. sinse tops, "primo"	oz lb	220 2500
<b>New York, NY</b>	Hawaiian, "direct delivery. Mostly sativa: fruity, spicy, very rich."	oz lb	250-325 3000-3500
	Skunk #1, "the real thing: sweet & perfumy."	¼-oz oz lb	75 200-250 2000-2500
	Thai, "brown & funky, not the lime greens"	oz lb	150-200 1800-2300
	Northern Lights, "indoor indica bud, heavy resin."	¼-oz ½-oz lb	65 125 2500
	Domestic sinse	lb	1850-2500
	Bricks of Jamaican	¼-lb	500
	Arizona sinse, "small green buds"	¼-lb	550
	Vermont, "sticky fresh green buds"	oz	220

## **AROUND THE U.S.**

<b>Boston, MA</b>	Brown Bud "Ripoff!"	oz	200
	Green bud "Ripoff!"	oz	300
	Thai stick "very rare, ripoff!"	oz	400
	Acid, "rare LSD"	one	5
		100	200
	Coke	gm	120-150
<b>Brooklyn, NY</b>	Colombian mersh "seeded dirt- weed"	oz	60-75
	Thai, so-called, "actually Jamaican bricks"	oz	180
		lb	1500-2000
	Sinse, "fresh, first in from harvest upstate"	oz	135
		lb	1800
	Acid, "red blotter from Manhattan"	100	90
	Cocaine, "pure, flake rock, boulders"	1/8-oz	200
		oz	1200

Eugene, OR	Oregon Indoor "K.G.B. killer green bud, world's greatest smoke"	oz	210		gers campus" Humboldt Co. indi- "skunk, "dealer's head weed, costly, crusty buds; rare"	1/4-oz oz	75 250-300
	Hawaiian Sinse "Maui Wai, very rare, tasty"	1/8-oz 1/4-oz	30 50		Hash oil, "honey- red, black, gold varieties; head- rushes galore; 1 hit, instant rush"	liq-gm	50-70
	Home choke, "couldn't get any worse"	oz	10		Mushrooms, "blue- black, dried caps from West Coast, freaky trip"	1/4-oz oz	45 150
	Mushrooms, aver- age: cubensis, "grown indoors"	gm	4-5 80-100		LSD, "leftover Dead tour blotter ok, not too strong, yin-yang, goofy, etc."	hit 5-hits	250 10
	LSD, "clean, excit- ing & affordable, direct from the dipper"	hit 10 100	3 25 100		MDMA, "1/8 gm dose almost too much, quality in- credibly pure; shipped direct from chemist in CA, fantastic!"	1/4-gm 1/8 oz 1/2-oz	30 350 1000
	Coke, "good high, excellent quality"	1/8-oz oz	275 1800-1900		Homegrown sinse buds, "good quality"	1/4-oz oz	35-45 140
	MDMA, "plentiful & fulfilling, great for parties"	one 1/8-oz	10 195		Brown commercial "decent"	1/4-oz	25-30
Kansas City, KS	Crystal meth, "just need a local resi- dent connection, very intense, direct from the cook"	1/4-gm 1/2-gm gm 1/8-oz	20 45 80 180		Homegrown buds "fair"	1/4-oz	35
	Brown weed, "it's the same after all these years"	oz	100		Homegrown shake & leaves "shit weed"	oz	50
Lafayette, LA	Gold Thai, "it's the best around"	1/4-oz oz	70 260		Hash, brown "pretty good"	gm	7
	Skunk, monopolized	1/4-oz 1/4-lb	50 750		Mushrooms, "very hard to find"	gm	5
	Green Pine buds	1/4-lb lb	350 1300		Acid, "dream on, none to be found, just rumors"	gm 1/8-oz	100 300-325
	Hash, "are you kidding?"				Cocaine "pretty good"	oz oz	2100
	Mushrooms, "look hard, I'm givin' em away"					1/4-oz	20
	Acid, "same ole thing"	one	6			lb	60
	Cocaine, "excellent rocks, plentiful, yellow"	gm 1/8-oz	130 400		Colombian shake	1/4-oz	375-390
Middletown, CT	XTC	one	25			lb	375
	Thai weed, "real good, authentic"	1/4-oz oz	60 200		Wild Indiana Hemp weed	lb	Free-50 300-500
	California buds, "heavy crystals, very dense & potent"	1/4-oz	65		Colombian buds	1/4-oz oz	15 45
	Mushrooms, psilo- cybe-cubensis, "big stinky heads 2 gms will do you"	gm 1/8-oz	7 40		Indiana sense buds	1/4-oz lb 10-lbs	400-500 250-450 3000-4000
	LSD, blotter, "see it shine in the sun"	one	2		Indiana sense shake	1/4-oz lb 10-lbs	10 35 250-450 3000-4000
	Cocaine, "standard stuff, bust recent- ly pushed price up"	gm	80		Afghan buds	1/4-oz lb 10-lbs	15 50 250-400
New Brunswick, NJ	Jamaican weed (Ganja)"Rasta connection, upper grade brown, fresh from Jamaica"	1/4-oz 1/2-oz oz	40 75 140-150		Afghan shake	1/4-oz lb 10-lbs	50 500 5000
	Unknown Green "OK, premature buds, leafy at times"	1/2-oz oz	80 130-150		Afghan hash	gm 1/4-oz oz	7 30 100
	Mexican sinse SMEX, "a trickle mediocre, prices too high"	lb	1600		Coke, "what's coke?"	gm —	45 —
	Missouri sinse "nice, red-haired 1/8-sized buds, best deal on Rut-	oz	180-200		DMT, white crystal	gm 1/4-oz oz	275 900
					Pot supply, "good"	1/4-oz 1/2-oz oz	60 105-110 210-220
					Mushrooms, "2-3 gms and the trees start breathing"	gm	5

Victoria, TX	Acid, Blue Diamond hit	5
	"steady, reliable supply, lost all reality"	
	Acid, White Blotter 3	10
	"very clean, wow, let's melt the park"	
	Acid, Starburst hit	5
	"as good as the rest; I'd stick with Diamond or W. Blotter tho"	
	Acid, Garden of Eden, "a paper high; all <i>bunk</i> acid dealers, you suck"	5
Woods Hole, MA	Homegrown "bunk"	oz 80-100
	Brown Bud	oz 300
	Green bud "Cape Cod sinse"	dime bag 50
	Acid, LSD	one 4
	Coke, "we don't use it too much"	100 140 gm 120-170

## IN THE BOONDOCKS

Ozark, AR	Afghani, "Arkansas' Best"	oz 200
	Sinse Buds, local "fair to killer"	oz 100-150 lb 1000-2000
	Ozark skunk buds, "love that skunk"	oz 200-250
	Mexican brown, "seedy, who needs it?"	oz 50-75
	Afghani black hash "Primo, Best shit I've smoked in years"	lb 1700
	Mushrooms, "killer when in supply"	gm 5-7
	LSD, Rainbow, "hard to find, but just like early '70s, best I've done in 12 years"	one 4
	LSD, Checkered Flag, "half of what Rainbow is"	one 4
	Cocaine, rocks "good shit & plenty love them rocks"	gm 75-100
	Crank, "can be good, but mostly shit. People here don't do no speed"	gm 100
	XTC (MDMA), "rare, from Dallas, too fucking high-priced"	one 20

## BRAZIL

RIO DE JANEIRO:  
Sinse

"the best, poison tablets"	kg 150
"big bag"	100-gms 30
	6-joints 1.50

## CANADA

TORONTO:	Afghan/Paki	oz 240
Poor Jamaican Yankee homegrown Canadian homegrown	"Dirtweed"	oz 120-140
	"Lousy buzz"	oz 100-160
	"Baseball bat sized joints for a mediocre buzz & matching dizziness from sheer smoke volume"	oz 60-100
Colombo crap Hashish Shrooms LSD	"Not good"	oz 150-180
	"Red leb"	oz 180
	"Prices are up"	oz 200-225
	"White blotter, not the cleanest"	one 3 100 160 1000 1200
VANCOUVER:	"Primo, high flyer"	oz 200-250 lb 2000-2400
Skunks & Kushes Indica Ruderalis	"Nice buds, medium buzz"	oz 150 lb 1200-1400
Indica Sativa hybrids	"Best of both worlds, varies in quality"	oz 160-180 lb 1600-2000
Northern Lights	Indica hybrid, "very sticky, very potent"	1/4-oz 60
Black hash	Afghani border, "3 types ranging from king to average-it's everywhere"	gm 10 oz 200-240 lb 2200-2350

# TRANS HIGH MARKET ANALYSIS



## FLORIDA

In response to your request for reliable, current prices for the Trans-High Market Quotations: I have been smoking pot and using various substances since the late 1960s. Two years ago, because of rapidly declining quality and availability in the marijuana market, I began cultivating indoors. The following prices have remained unchanged for my last six harvests. The prices are also very, very acceptable to all my longtime "druggie" friends: 1/8 oz. manicured *indica* buds—\$25; 1 oz. manicured *indica* buds—\$175; 1/4 oz. of *indica* tops—\$45-50. I have never dropped the price on quantities (I sell oz.'s only in quantity) and have never had to argue the price. I also sell my shake for \$1.50 a gram, making it \$42 an oz. Freebase is **everywhere**. Coke goes for \$60 a gram and up. All us "old-timers" have long since tired of toot, but cocaine-related crime is rampant in Tampa. By the way, if you **have** to go to the street for reefer, one matchboxfull of scorching, throat-searing, brown shitweed goes for \$15.... What has happened? Keep on tellin' it like it is!

**Farmer Gregor**  
Tampa, Florida

## TEXAS

I got a big kick out of those crybabies writing in the THMA. It hasn't been too dry **en me casita**. This year I've reaped a substantial harvest from my five females—three Central American *sativas* and two Hawaiian/Afghan hybrids. After adding his good looks to my gene pool, I thoroughly cannibalized my male *sativa* (with a little help from Betty Crocker). As a prosperous entrepreneur in a plant-related enterprise, I realize the tremendous financial implications of owning a hefty, quality stash during 'hard times.' However, I am smoke greedy, sharing my herbal harvest with only a few intimate friends (me, myself, and I). Lately, I've had to send some smoke my wife's way as she started to charge me  $\frac{1}{2}$  oz. a screw. There may be a famine soon after all.

**Miguel El Jardinero**  
Austin, Texas

## BRAZIL

I had five big plants in Rio. They were about 8' tall and very bushy. In Brazil, we really don't care about names, only sexuality.

I think that you people don't know how to dry buds correctly. The result is always a very brittle, dried bud. I don't know, but I think that excessive evaporation of water decreases THC amount.

I used to harvest at the last moment possible, when the buds were darker than green and sticky. I could almost see small drops of dark resin flowing out of the buds. The smell was very strong. I always put the buds over a sun-heated surface, like a rock for example, and after some hours, I put them into a form and pressed them for a period of one or two days. After this period, I would have a very tasteful, hard tablet that smelled wonderfully good.

**Rio Reefer Lover**

## NORTH CAROLINA

At the end of July of '85 the Pasquotank County Sheriff's Department snatched my small patch of thirty loose leaf Thai plants. This was the straw that broke the camel's back. I decided to move my cannabis cultivation tactics indoors. I was quick to set up an advanced grow room, because I knew a man with the full knowledge of this fine indoor art. He sold me forty-five cuttings of guaranteed *indica-Afghanistan* pure hybrid strain kick-ass for fifteen hundred dollars. My grow room is 15' x 15'. It was well-ventilated and the temperatures ranged between 70°-90°F. The humidity was between 60-90%. I ran three white lights on three tracks. My first crop dried out at ninety ounces manicured. In the Carolinas this pot brings an easy \$250.00 an ounce: the crop's total worth comes to \$23,500. I am a totally satisfied man. The way Ronnie Reagan's "Drug War" on outdoor growing is going—helicopters, airplanes and men with fatigue uniforms and guns—versus my new indoor way of life, I will probably never grow a marijuana plant outdoors again.

**Hankster the Gangster**  
North Carolina

# ACTIVIST NEWS

## WAR ON DRUGS: HYSTERIA, LIES AND DEATH

BY BURT D. NEAL  
NORML Projects Coordinator

I'd like to think of the year just past as the year when the "war on drugs" was exposed for what it is: **A WAR ON YOU.**

In a war, where all's fair, common sense and the truth are just as much casualties as the dead.

Oley, Pennsylvania is a good example of middle America. The actions of its school administrators are a proper example of what happens during a war, when hysteria gains the upper hand.

One day, a teacher at Oley Valley High School reportedly witnessed a group of students passing around what appeared to be a cigarette. The teacher did nothing about it at that time. Two weeks later, the new assistant principal, **Richard Zinck**, decided that this cigarette sighting gave him "reasonable belief" that drug use was involved. His solution: call all male students into the gymnasium to conduct a massive strip search of every single student.

Maybe I'm wrong, but it seems to me that it takes a paranoid personality to assume "reasonable suspicion" from a two-week-old sighting of a tobacco-like substance. It also seems Orwellian to strip search everyone even if there had been a reasonable suspicion of specific individuals. The search's final worth was clear when nothing was turned up: **no drugs, legal or illegal.**

The school administrator has refused to apologize for his actions. For the students, this is a terrible example of **Justice in America**. While the students are taught that it is govern-

ments such as the Soviet Union's that are guilty of violating individual rights, they are subjected to the very thing that supposedly separates us from them. Some civics lesson! School districts in New Jersey and New York have considered similar policies of strip searching students.

I thought I had found in this the perfect example of marijuana McCarthyism—until I read about what happened in **Sauk City, Wisconsin**. On September 16, 1986, **John Graham**, a citizen of Sauk City, was arrested for marijuana possession. A resident of the town had called in the information to the police; apparently John had been seen picking some of the wild hemp that grows in the area. He was stopped by veteran police officer **John Mueller** and an off-duty game warden, **John Buss**. Graham was placed in handcuffs; he was lying facedown when Mueller allegedly fired two gunshots to his head, **killing him**.

Mueller's attorneys conceded the killing but claimed he was not guilty by reason of mental disease or defect. It seemed that Mueller was a big fan of **President Reagan**, as evidenced by the Reagan bumper stickers, buttons, and posters, as well as letters to the President, that were found in his apartment. Mueller's lawyer was quoted as saying, "There is no question that he held Reagan in the highest esteem and the war on drugs was something he took very seriously." They emphasized that Mueller's remarks after the shooting established a "definite connection" between the shootings and Mueller's perception of the President's war on drugs, announced on national television two nights before.

The previous accounts are only two exam-

ples of where the war on drugs is leading. The "drug-free society" the Reagans are calling for is a society free of pot smokers, a society "intolerant" of marijuana users, in which they will be treated in the manner of the **German Jews** of the late '30s.

The correlation between the **Nazis** and the war on drugs is frightening. Administration spokesmen accuse marijuana users of causing or committing child abuse, birth defects, sexual perversion, lost economic productivity, the adverse balance of payments, accidents, crime, and even AIDS! Look at your history books: Hitler made similar charges against the Jews when he sought support for a "*Juden-frei*" society safe for "normal" people.

Administration people are talking about putting drug "abusers" (anyone who uses illegal

drugs) in centers (ghettos) in which they will be required to receive "treatment." Children are applauded for turning in their parents to the police for marijuana possession. The clamor to solve the drug problem is forcing the opening of a "new front," what Assistant Attorney General Steven Trott proudly calls a "scorched-earth policy"—to go after the users. Rep. **Dan Lugren** (Ca.), the Republican leader on crime and drugs, has said, "I think if we put some ballplayers, doctors, lawyers, bankers—some of these people who have been using drugs—in jail, that sends a stronger message than perhaps any single thing we could do."

**Do these things sound familiar?** Those that forget the past are doomed to repeat it. It is very clear to me what this war on drugs will lead to if we don't fight it now. The easiest thing you can do to help is to join the **National Organization for the Reform of Marijuana Laws** (\$25 dues annually), or send in your tax-deductible contribution to **NORML, 2001 NW, S St., #640, Washington, DC, 20009**. In order to stop this rape of the American way of life we need you to do more. We need people who are willing to contact their elected representatives and local newspapers and urge them to stop this war on America's citizens. You must also help alert your friends and fellow citizens to what personal liberty really means. Please contact me for further information.

**The Jews in Germany had no opportunity to alter their plight. You still have that opportunity today. Tomorrow I'm not so sure about.** ●

## TROPACOCAIN

continued from page 25

that yes, that's obviously what had happened, it split into two isomers. Then I asked if maybe he could send me the *close-up* "fingerprint" of that tropacocaine peak, so I could sniff through it for any traces of the other six isomers that certainly should have been there if it was *really* synthetic tropacocaine. He courteously said that he'd pop that closeup spectrum in the mail for me *tout de suite*. He sounded curious about it himself.

Which is where I blew it, of course. Obviously this Finnegan MAT representative had to go and ask for a copy of this chromatogram from the person in charge of this fairly *sensitive* DEA dope-sampling contract project. Obviously that person felt it best to ask the DEA if they considered it was appropriate to be advising HIGH TIMES magazine about these matters. And the paranoiacs in DEA "Intelligence" threw a chain saw at this poor guy, or something, and induced him to pretend that he was suddenly personally all emotional about dope magazines. And maybe he *was*, too. Maybe all those times he'd spoken to an editor from HIGH TIMES, he'd supposed he was talking to someone from an airline slick. People that stupid do exist in the world, but they tend not to know an isomer from their Aunt Matilda.

But I digress. The DEA's stated notion that tropacocaine is an unfortunate sideproduct—"artifact"—of shoddy kitchen chemists cooking up synth-o-coke is pretty dubious, when you look at it closely. If they've been quietly spending our tax money—for years now—in a project to "fingerprint" synth-o-coke labs, then no wonder they've never managed to arrest anyone for anything more real-life than *conspiracy* to make synthetic cocaine. And if they never do manage to catch any synth-o-coke chemists this way, no matter how much more public money they may lavish on private contract labs, that's probably because their basic theory here is dead wrong, and there aren't any big clandestine synth-o-coke labs Out There, spewing out all this poisonous garbage.

Dr. Woodford in Atlanta has a decidedly more plausible theory about the origin of all this poisonous garbage, though he prudently stipulates that it's pure speculation at this point. "By what I call the Old Family Way of making cocaine from coca-leaf," drawls Jim, continuously delighted with his own cleverness, "they had the peasants foot-stomp it down into this intermediate mush—*la pichicata* they call it down there, meaning 'the piss'—and then they'd just separate out the cocaine. But I think they figured out how they could increase production a hundredfold in the early '80s, when these new families moved into the trade

continued over

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## TROPACOCAIN

continued from previous page

down there, with some fairly sophisticated technical advisors. And these advisors showed them how the real pros at Merck and Mallinkrodt in Germany do it, by the classic *retrosynthesis* method. Basically, you take all the coca alkaloids in that *pichicata* mush—the cocaine, cinnamoylcocaine, Truxillics—and convert them all back into their mutual precursor alkaloid, *ecognine*. Then you convert all the ecognine into cocaine, which ups your yield per leaf by about 90 percent. So if you're wondering why there's so much more cocaine on the streets now than just seven years ago, there's your answer: the New Family Way of making cocaine.

"But if the chemists don't do it just right," continues Woodford, "they'll wind up with some *tropeinol* starting matter along with their ecognine. And then when they turn the ecognine into cocaine, they'll also be turning the tropeinol into tropacocaine. Which not only makes you crazy, but has really disastrous effects on the heart muscle, by the way. I sure would like to know if Len Bias' stash of coke was ever checked for tropacocaine traces, but that coroner in Maryland just isn't talking about it at all any more, is he?"

There's an alternative scenario for the rather sudden appearance of tropacocaine on the streets in the '80s, which involves certain radical, wholesale changes in the *geographical location* of coca plantations in Bolivia in the earlier part of the decade. I personally incline toward this botanical hypothesis for the appearance of "T-coke," as I call it. But I only favor it because I have a nice fat file full of unique and esoteric, 100-

percent *true* material to support it, gathered with loving diligence over many, many seasons now. And this botanical scenario in no wise conflicts with Dr. Woodford's chemical scenario at all. It's entirely possible that the *narcotrafficante* chemists of South America as well as the primordial Inca vegetation deity Mamacoca are conspiring simultaneously to poison all us drug-hungry *hija de puta Norteamericano*s with this gruesome and murdering toxin.

effective as a transponder beeper, but *better* in the sense that you'd need a whole spectacular Finnigan MAT Ion Trap Detector to find it. It's a *genius* idea!

The idea is so brilliant, in fact, that I would tend to rule it beyond the capacity of DEA "Intelligence" by that token alone. And it's been known since the 1900s that tropacocaine is just viciously toxic, even in extremely tiny trace amounts. Just as the DEA probably isn't smart enough to carry out any cocaine-tracing project as clever as this, I honestly don't think they would be so *stupid* as to intentionally poison thousands of ordinary American citizens—and criminally bereave their *tens* of thousands of decent, taxpaying, voting, nondruggie relatives and loved ones—even for the sake of all the beautiful international narcotics-trade intelligence they could obviously glean from such a sly project.

There it is. If the DEA *might* have the brains to carry out a coke-tracing project like this, then surely they would also have brains enough to employ some wholly non-toxic tropacocaine *isomer* for this purpose, and not tropacocaine itself. Sure. Makes sense. If it's obvious to me, it sure ought to be obvious to the ultraintelligent career administrators at the DEA's headquarters in Washington, where they like to believe they impose some adult supervision over the inventive paranoics in the "Intelligence" tong. Those grown-up people in Washington know what the law says, for sure, about poisoning people.

So no, I don't believe that when you snort cocaine nowadays, you invite a surreptitious poisoning by the supermaleficent Drug Enforcement Administration. But you *do* risk getting poisoned every time you snort coke now, and like Dr. Woodford says, it's something to talk with your friends about. ●

## When you snort cocaine nowadays, you risk getting poisoned every time.

Finally, there's the worst-case scenario: that it's the evil old DEA slipping all this subtle poison into all this dope somehow (*They Have Their Ways*, you know) so that they can have a chemical tracer for wholesale shipments of coke, detectable every step of the long, complicated way from Manaus to Minneapolis. It's actually a splendid idea, if you think about it: a tracer every bit as ef-

## REAGANOPOLIS

**C** In our last episode Andrés blew up a school bus and dismembered 2 peasants. **N** But his Mission for Democracy was just beginning....



MATTHEW FINCH

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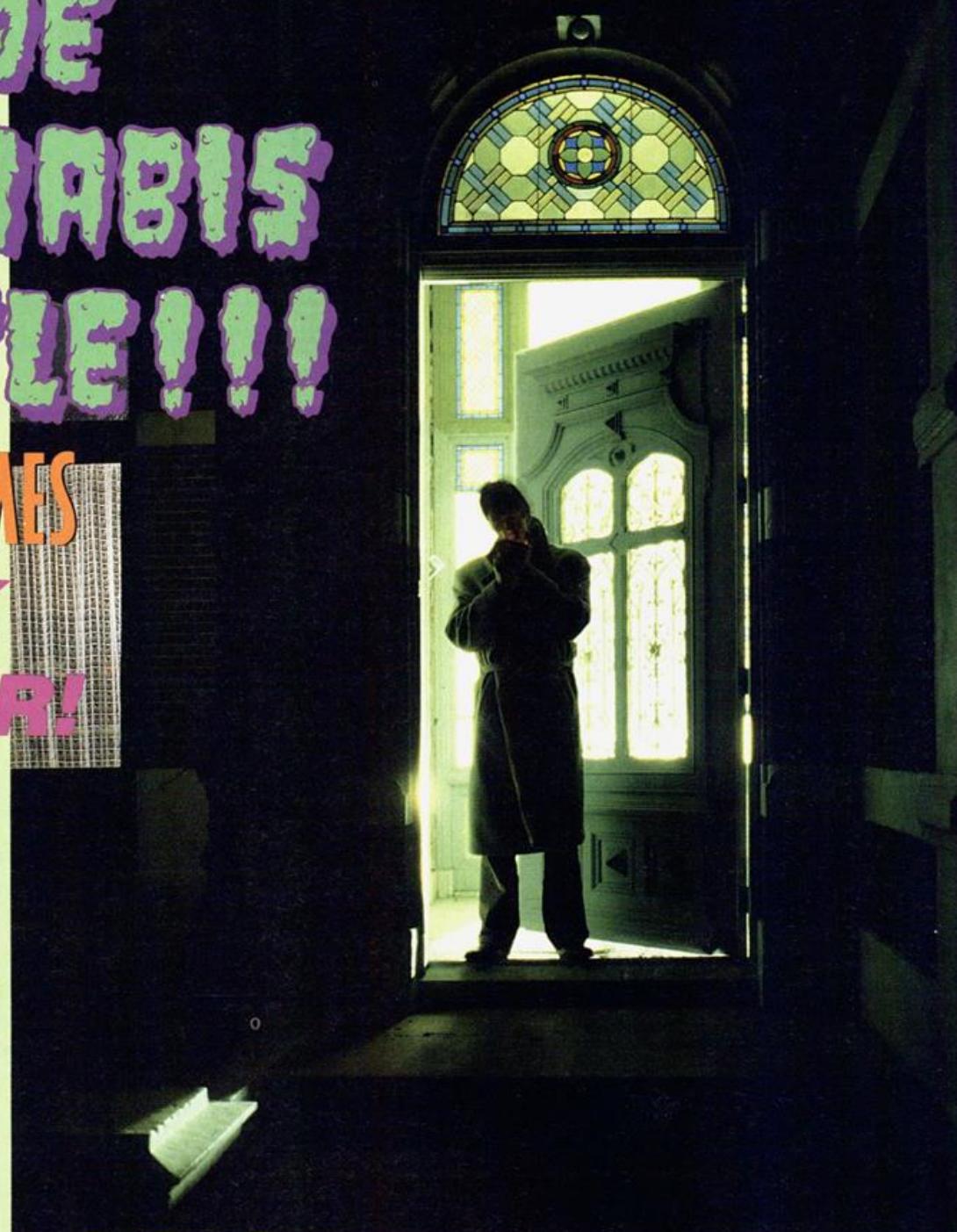
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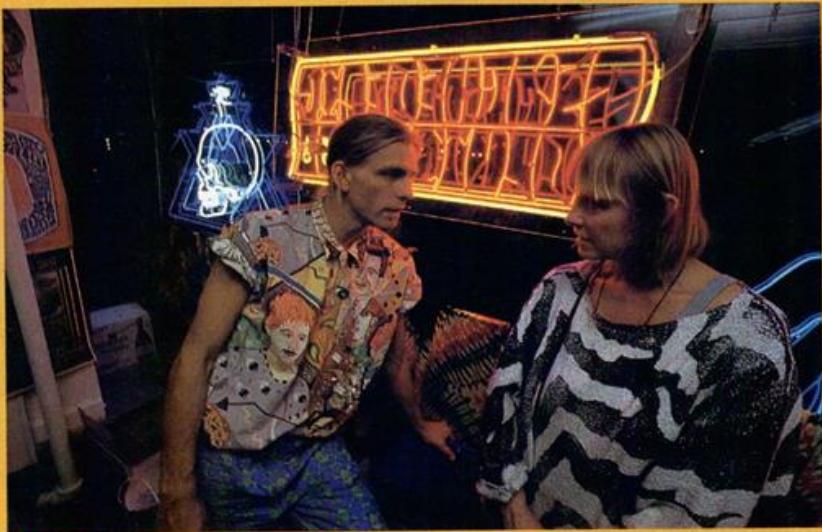
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JEFF VAUGHAN

# FLASHES

Plenty of Cassandras run around declaring that "Art is dead," but what will they matter when we have Rick Griffin proving that "The Dead is art?" To Griffin, and to thousands of fellow psycho-mutants around the globe, "The Dead" is not your average "rest in peace dead" or even the walking "living dead," but is the one and only GRATEFUL DEAD. Griffin, one of the great masters of San Francisco poster art who helped define an age of psychedelic inspiration, has long been synonymous with the Grateful Dead's mythic vision of the cosmic groove. He has drawn for us the mystic icons (like the flying eyeball and the surfing skeleton) that we see when we take a toke, drop a tab, and turn on to the bizarre mind waves of a Grateful Dead jam. But more than just illustrating our drug-warped fantasies on classic Dead album covers and posters, Griffin



Ardent discussions ensued.



(Above) Griffin's pastiche of Flemish art in the service of Dead-dom.



Psychedelic Solution's dedicated staff backs Rick Griffin (center, holding art) at his recent opening there.

has tuned in to the special psychic vibrations of this trip, felt its intense organic high, and created some of the most beautiful and freaked-out revelations of this underground spiritual heresy.

Beyond the usual sources in the network of Sixties and Grateful Dead memorabilia, fans can now acquire reasonably priced art works by Griffin from Psychedelic Solution, 33 W. 8th St., 2nd floor, New York, N.Y. 10011 (212) 529-2462. Psychedelic Solution, a poster shop in front and an art gallery in the back, opened this past November with a mini-retrospective of Griffin's art. Next up at this gallery/store is "Zombie Mystery" painter ROBERT WILLIAMS (thru Feb.), then photog BOB SEIDEMANN, fondly remembered for his banned album cover shot for Blind Faith (Mar.-Apr.).

— Carlo McCormick

# THE AMAZON RAIN FOREST: An Endangered Resource

Lately the news has been full of environmental disasters around the world: the disappearance of the ozone layer, nuclear power plant accidents, the poisoning of the Rhine river. To this list of seemingly remote catastrophes we must add another, even more urgent one: the imminent destruction of the Amazon rain forest in Brazil. Like other "far away" events, this ecological nightmare threatens us all. Caused by short-sighted corporate greed and governmental stupidity, this ruin of a vital global resource is almost complete. But something can be done if we act now. PETER GORMAN, who has made several trips into the Amazon's isolated jungles (see "Nu-Nu: The Dream of Hunters," HIGH TIMES Dec. '86), describes this mindless disaster-in-the-making, and tells what can be done to stop it. The world we save is our own.

— The Editors



KATE KELLER

In the December 1986 issue of HIGH TIMES I wrote about a recent trip deep into Peruvian Amazonia where I used the hallucinogen *Nu-Nu* with a group of Matses Indians on the Galvez River. While I love going into the jungles of South American and getting high, there is much more to this region than exotic drugs. Amazonia is one of the world's great resources. It is home to roughly half of the species of living things on this planet, a vast network of diverse yet interdependent ecosystems.

Its size is phenomenal: it comprises roughly half of the South American continent and embraces ten countries. Yet it is considered one of the most fragile ecosystems on earth, one that, if mismanaged, will be irreversibly destroyed. And at this time it is being deforested at a rate of 25 to 100 acres *per minute*. Over the course of a single year, that comes to an area roughly the size of New York State. At this rate, only isolated pockets of rain forest will remain by the year 2000.

How is it possible that an area so rich, so vast and verdant, can be destroyed so quickly? The answer lies in its makeup. The rain forest is a closed system; it not only recycles its own nutrients but also produces more than half of its own rainfall through transpiration. This cycle is so leakproof that incoming nutrients carried by rain and dust balance those lost by leaching. Even the forest canopy scavenges nutrients from rain, and roots grow out of the soil to intercept nutrients flowing down the trunk. It is a self-sustaining system that has developed out of necessity. The soils of the Amazon region are among the poorest in the world; therefore, all plant nutrients must be retained between a dense but shallow root system and the forest canopy. Once the nutrient cycle is broken by large-scale clearing, erosion and soil compaction follow. New forest growth does not develop on cleared land; instead, the cleared area generally grows a mossy cover or subshrub growth and the biological variety of the primary rain forest is lost. If used for agriculture, the land will yield crops for

no more than ten years' time; if used for cattle ranching, that figure is halved.

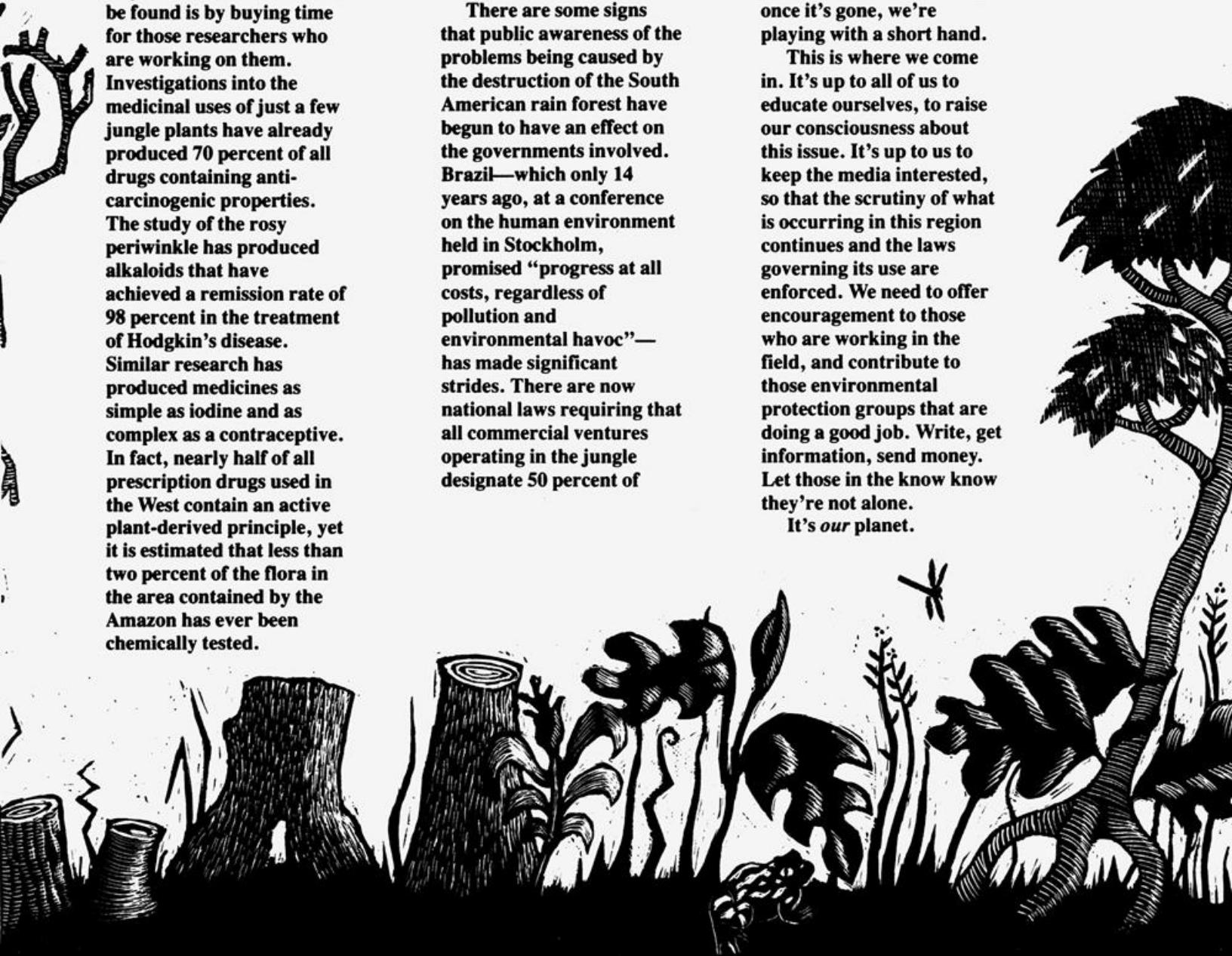
Why is this destruction happening? What does it mean to the rest of us? And how can it be stopped?

The answer to the first question is, primarily, greed. Corporations and conglomerates based in North America and Europe have long exploited Amazonia for its vast resources of timber, and have cleared large tracts of land for cattle ranching. Despite proof that neither of these approaches to colonizing the tropical rain forest are viable, businesses continue to seek the short-term, short-sighted buck.

But outside interests alone are not responsible for the destruction. While the exploitation of Third World resources seems to have been stemmed somewhat by recent media awareness and public scrutiny, a new problem has cropped up: resettlement of the burgeoning masses of urban poor. Both Peru and Brazil have built roads into the jungle in an effort to resettle two million dirt farmers in the interior, and land grants have been given away in frightening numbers. The influx of so many more slash-and-burn farmers than the area can support has wrecked havoc with the environment. The burning of vast tracts of primal forest has destroyed the habitats of thousands of animals, most notably, those of the large arboreal mammals of the Atlantic

region (the jaguar, ocelot, and three-toed sloth); reptiles and fish (the manatee, paiche, electric eel, and black cayman); birds (the condor and aguillar); and plant species. This has also contributed to the extinction, through death or acculturation, of more than 100 indigenous Indian tribes since the turn of the century. Besides the sociological void this creates, each tribe takes with it a body of knowledge acquired over the centuries of interaction with its environment.

In addition, global consequences of the destruction are beginning to show themselves. The denuding of the jungle is fast producing a change in the tropical albedo, or reflectivity, and increases in the amounts of carbon dioxide and nitrous oxide in worldwide atmospheric levels are being recorded. With these changes we are beginning to see increased surface temperatures and aridity in tropical food belts, decreased rainfall in temperate zones, and increases in ultraviolet radiation at ground level. Too, the genetic diversity of



tropical plants is decreasing, shrinking the world's biological pool. The world as a whole is affected when the rain forest dies. This is no exaggeration: the body of scientific information available on the subject is staggering.

Of course, we can't go into overcrowded, debt-ridden Third World countries and tell them to stop clearing the jungle because the habitat of a cute monkey is threatened. The only way the destruction can be stopped is by offering alternate solutions to their economic stagnation, and the only way viable alternatives can be found is by buying time for those researchers who are working on them. Investigations into the medicinal uses of just a few jungle plants have already produced 70 percent of all drugs containing anti-carcinogenic properties. The study of the rosy periwinkle has produced alkaloids that have achieved a remission rate of 98 percent in the treatment of Hodgkin's disease. Similar research has produced medicines as simple as iodine and as complex as a contraceptive. In fact, nearly half of all prescription drugs used in the West contain an active plant-derived principle, yet it is estimated that less than two percent of the flora in the area contained by the Amazon has ever been chemically tested.

Another alternate use of the jungle would be to investigate some of the indigenous plants for the purpose of adding to the world's primary food supply. Seven of the 20 most common foodstuffs come from the tropics, and it has been suggested that there are many more grown there that, with cultivation in balance with the tropical ecosystem, might enter world markets.

Additionally, the plant fuels—natural gases released by the biomass—are currently being tested for commercial application by several research groups in northeast Brazil.

There are some signs that public awareness of the problems being caused by the destruction of the South American rain forest have begun to have an effect on the governments involved. Brazil—which only 14 years ago, at a conference on the human environment held in Stockholm, promised "progress at all costs, regardless of pollution and environmental havoc"—has made significant strides. There are now national laws requiring that all commercial ventures operating in the jungle designate 50 percent of

their lands as reserves or study areas; since 1980, eight million square kilometers of primal forest have been set aside (this area includes Brazil's first government-sponsored national forest preserve).

Also, government incentives for cattle ranchers have been dropped.

The job is not so much to keep people out of the jungle as to find out what the jungle has to offer, to begin to utilize its information instead of trying to make it provide what we demand of it. As the generative belly of this planet, it needs protecting; once it's gone, we're playing with a short hand.

This is where we come in. It's up to all of us to educate ourselves, to raise our consciousness about this issue. It's up to us to keep the media interested, so that the scrutiny of what is occurring in this region continues and the laws governing its use are enforced. We need to offer encouragement to those who are working in the field, and contribute to those environmental protection groups that are doing a good job. Write, get information, send money. Let those in the know know they're not alone.

It's our planet.

**For information about  
the Amazon, its peoples,  
fauna and flora:**  
**Brazilian Institutes of  
Geography and Statistics  
(IBGE)**  
**Avenida Brazil #15846  
20000 Rio de Janeiro, RJ  
BRAZIL**

**Officina National  
Evolution de Recourses  
Naturales**  
**355 Calle 17, El Palomar  
San Isidro, Lima, PERU**  
**(Attention: Octavia  
Vizcarra)**

**Peruvian Foundation for  
Conservation of Nature  
Chinchon 5 & 5D  
San Isidro, Lima, PERU**

**Brazilian FUNAI (Indian  
Fundacion) SIA**  
**Trecho #4, Lot 750  
71200 Brasilia, DF  
BRAZIL**

**Brazilian Consulate**  
**630 5th Ave., Rm. 2737  
New York, NY 10111**  
**(Mrs. Flusser, Cultural  
Attaché)**

**Peruvian Consulate**  
**805 3rd Ave., 14th fl.  
New York, NY 10022**  
**(Raul Pinto, Ambassador)**

**Equadorian Consulate**  
**18 E. 41st St.  
New York, NY 10017**

**Some places to send funds  
(direct monies to South  
American Research):**  
**World Wildlife Fund-U.S.**  
**1601 Connecticut Ave.  
NW, Suite 800**  
**Washington, DC 20009**  
**(For information: Emilie  
Mead, Communications  
Associate)**

**The Nature Conservancy**  
**1800 N. Kent  
Arlington, VA 22209**

**L. S. B. Leaky Foundation**  
**Foundation center 1-7  
Pasadena, CA 91125**

# GRATEFUL DEAD



PHOTOGRAPH BY HUBERT KRETSCHMAR  
LETTERING BY DAVID ALLEN

**A**nyone who thinks the '60s ended with Altamont obviously hasn't been to a **GRATEFUL DEAD** concert lately. Becoming the official standard-bearers for the psychedelic revolution was quite a formidable task—most bands would have burnt-out or crumpled under the pressure long ago. But 22 years later, this mighty warhorse still strides into battle with the cosmos in search of hidden inner truth and beauty. Rock may live forever, but there'll never be another **GRATEFUL DEAD**.



# GRATEFUL DEAD

Twenty Years So Far

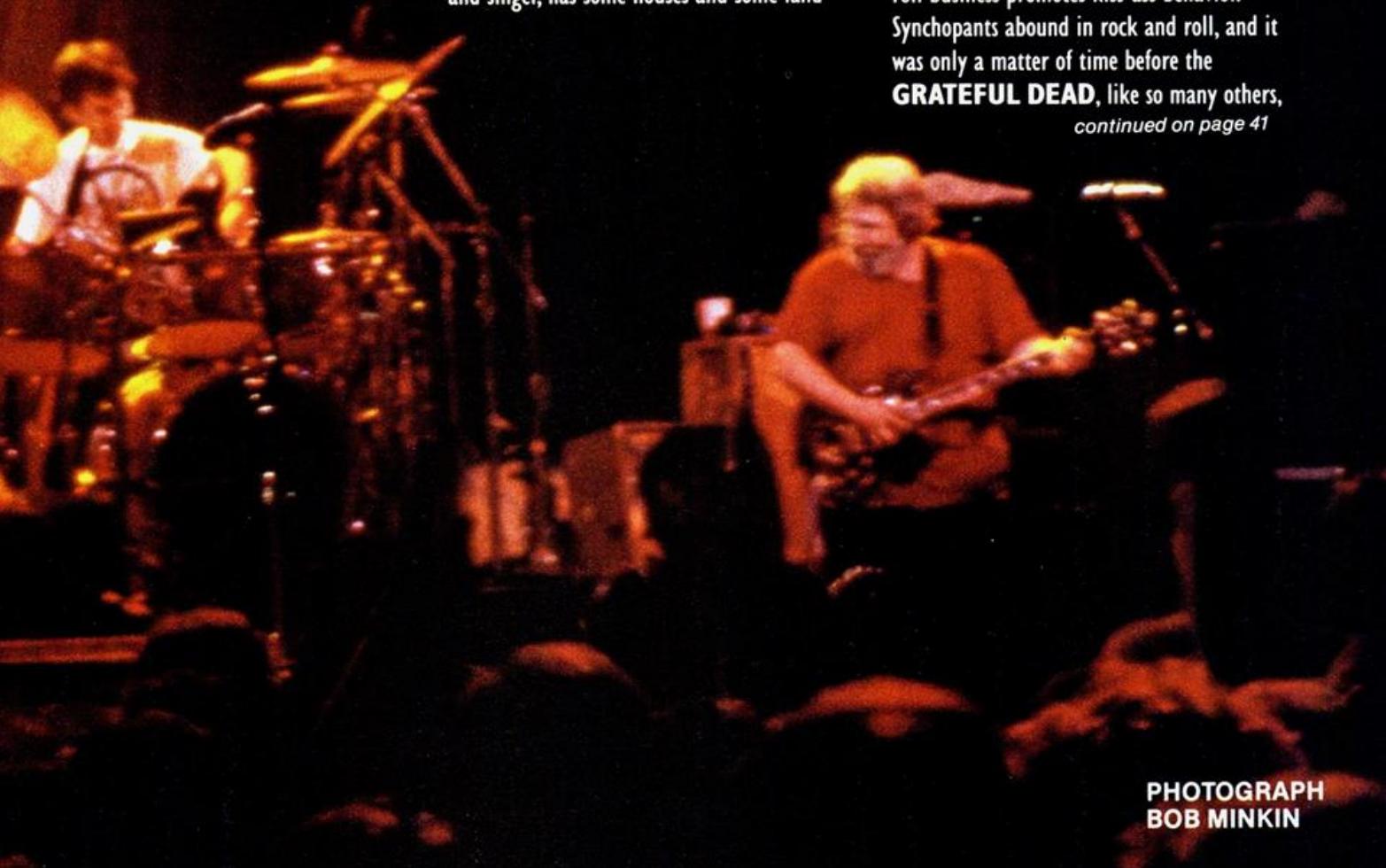


# An Appreciation

If it could be held, a reunion of ex-GRATEFUL DEAD staffers would look like a portrait of Dorian Gray with Heidelberg scars. The cracks, jowls and early hair loss acquired from living in the contra-puntal fast lane are all there. Yet the band lives on, in the center of the helix, unmolested by the calumny around them.

I am the only surviving ex-manager of the Warlocks! TC (Tom Constanten) is the only surviving ex-keyboard player of the GRATEFUL DEAD. There are others like us, some alienated from the band, some in exile, some simply unwelcome at court.

*What the hell is and who the hell are the GRATEFUL DEAD?* Why does this phenomenon persist? Who are these mysterious musicians? What has held them together for up to ten years? How much money do they make? Who are the Dead Heads?



## Hank Harrison

### Life Styles of the Poor and Infamous

The GRATEFUL DEAD band members have money, don't kid yourself, though they went through many years of poverty. Phil Lesh walked ten blocks in the rain to get fed at my house one night back in 1964. Jerry Garcia lived on peanut butter in a cabin in Palo Alto in 1961.

None of the band members come from poor families, yet constant brushes with compromise, jail, poverty, and being radical in a conservative world have left some scars. Poverty has left the same impression on THE DEAD as it has on Dylan, Springsteen, Willie Nelson, and Bob Geldof.

Lesh, the bass player, has a few bucks and investments and a few nice cars. (You can't get from the Oakland Hills to Fairfax in 34 minutes in a jeep!) Garcia, the lead guitarist and singer, has some houses and some land

and kids to put through school. Life goes on apace, but alas, age, that great equalizer, is catching up, as is life in the trenches. From now on there will be more shows in San Francisco and fewer road extravaganzas.

### A Visitation from Xeno

Life with THE DEAD is exciting! Life with THE DEAD is boring! Life with THE DEAD is passive and idyllic! Life with THE DEAD is treacherous and violent! Take your pick, all of the above are true. In fact, life with the GRATEFUL DEAD is so staccato that one must possess a tolerance for ambiguity that would test the patience of a bum waiting for a gourmet meal in Bedford-Stuyvesant.

Many adoring old friends of the GRATEFUL DEAD have drifted away, primarily because the nature of the rock and roll business promotes kiss-ass behavior. Synchopants abound in rock and roll, and it was only a matter of time before the GRATEFUL DEAD, like so many others,

*continued on page 41*

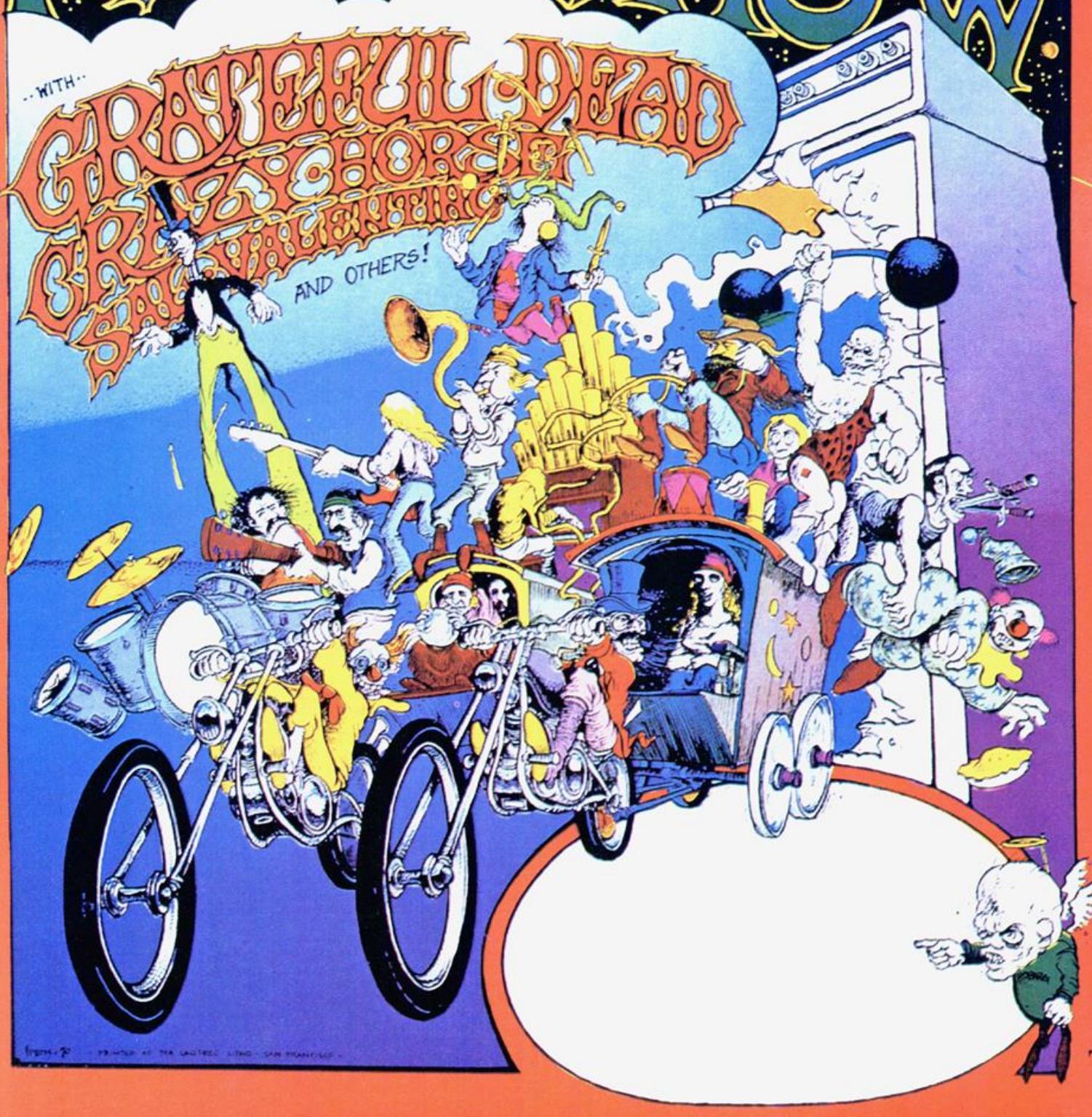
PHOTOGRAPH  
BOB MINKIN

# FREE SHOW

...WITH...

## GREGORY & THE DEAD GREGORY CHORUS GREGORY BAND

AND OTHERS!



FEBRUARY 1987 PRINTED AT THE SAKTREK LITHO - SAN FRANCISCO

GREG IRONS

# GARCIA



continued from page 39

kicked out all the nay sayers and boat rockers and allowed themselves to be "influenced" by salivating "yes" men from the record industry. This may explain why they don't do hit singles and commercial records. They hate the record industry, but they need it! (They may soon be booking studio time once again.)

Throughout the trials and tribulations **THE DEAD** have stayed together, remaining friends. They are not burnt out at all. Their adoring cult followers never see them in a real perspective and often start rumors of bizarre proportions. Two years ago Lesh's mother was supposed to have died, so I called her at home. She's still living in the same house, happy as a lark, still a Christian Scientist.

## Garcia Is Not Dead

The rumor that Garcia is brain dead is even more absurd. Last summer he had an abscessed tooth and it went systemic. Okay, so he forgot to brush his teeth, maybe he ate too much road candy, but this ain't brain damage. The band may be slowing down, but nobody is ready to die.

The **GRATEFUL DEAD** are, at the core of it, a bunch of professionally trained musicians working a class gig! To them, all the other bullshit is just bullshit.

Garcia hates to be cast as a guru, although he accepts compliments well and raps like a visionary. Lesh still has perfect pitch in spite

BOB MINKIN

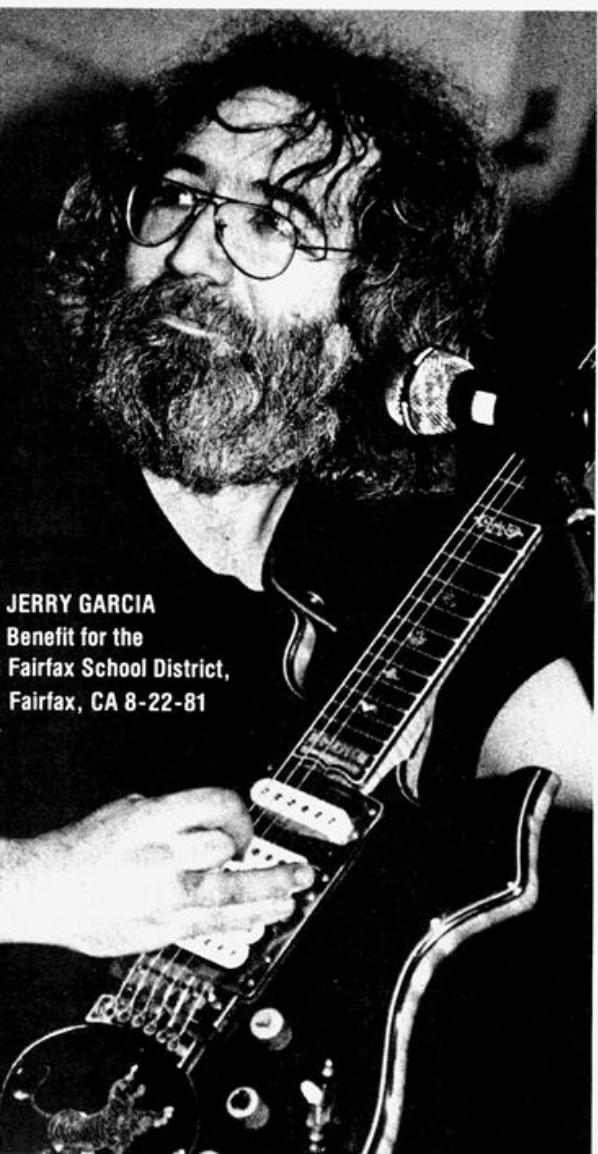
of 20 years of ear-ripping electronic music. He also has a photographic memory, yet he is so shy he seldom speaks in public. In real life he is a bookish type who has collected one of the most extensive hermetic libraries on the West Coast.

Mickey Hart, the percussionist, has a ranch down the road from George Lucas. He is an accomplished equestrian and owns a number of quality horses.

Robert "Bobby Ace" Weir lives in a wonderful house in the hills above Mill Valley, with an elaborate recording studio on the premises. Any number of family members or visitors may be living with him at any given time. The other band members live in similar circumstances.

continued on page 47

PHIL LESH  
Hershey Park, PA  
June 28, 1985



JERRY GARCIA  
Benefit for the  
Fairfax School District,  
Fairfax, CA 8-22-81

# GRATEFUL DEAD

## CONCERT TAPING

People always ask about Dead concert taping and how it got started. In the early days the taping was done for the benefit of the musicians, so that they might "school" themselves in a reflective moment. These backstage rehearsal tapes, sometimes reel to reel, were hooked right into the PA direct line and were actually rough mixes. Sometimes these tapes fell into circulation because they got left behind in hotel rooms or, in a few cases, were used as barter when money got short.

In other cases people were awarded taping privileges, or they swapped dope with the PA man so that they might plug into the mixing board. These tapes are called "board" tapes in **DEAD** circles and are highly prized.

There are about 10,000 hours of **GRATEFUL DEAD** music that have been recorded by the band and fans. **THE DEAD** have had such herniated relationships with their record companies (note the use of the plural) that the record companies simply could not legally enforce the search for concealed recording equipment at the band's concerts as they do with other bands and performers. Many early tapes leaked out because the group was between contracts; since **THE DEAD** have been between contracts more than any other band in history, you can see how many tapes could have leaked out over the years.

As a rule, **THE DEAD** organization doesn't like the fascist idea of searches, although weapons and booze are the isolated culprits in most cases. So the **DEAD HEADS** don't get searched for recorders or minicams, video equipment, and the like. To my knowledge, searches are mandatory at Van Halen and Springsteen concerts, but not at **GRATEFUL DEAD** shows. Too, these unauthorized tapes do no harm and are great publicity for the band. They are usually of inferior quality, but a lot of people collect tapes of the concerts they have attended as part of their personal quest—sort of like transcripts of seminars offered for sale after a businessman's convention.

Along about 1978 the band decided it couldn't fight the tapers, so it gave them permission to tape "acoustically" from a special section of the audience, at no extra charge. Now the search for hard hooch and guns could go on and tapers could get in unmolested.

Somewhere along the line the musicians sent out a communiqué to the effect that anyone taping the performances should use **Maxell XL** tape only, and that the tapes should never be sold, only swapped. This was a noble gesture, but it gave tacit approval to cliques and elites within the cadres of fans. In less than two years, two or three rich guys had all the tapes, and nobody in the boondocks could get any. If you didn't travel to **DEAD** concerts because you had a responsible job, or you were too young, or didn't have a tape duplicating system, you were out of luck. Eventually people had to buy the tapes just to begin their collections.

It got geeky as far as I was concerned. People gave up quality for quantity. At one point the most ravenous tapers were rating their collection by the sheer number of hours they



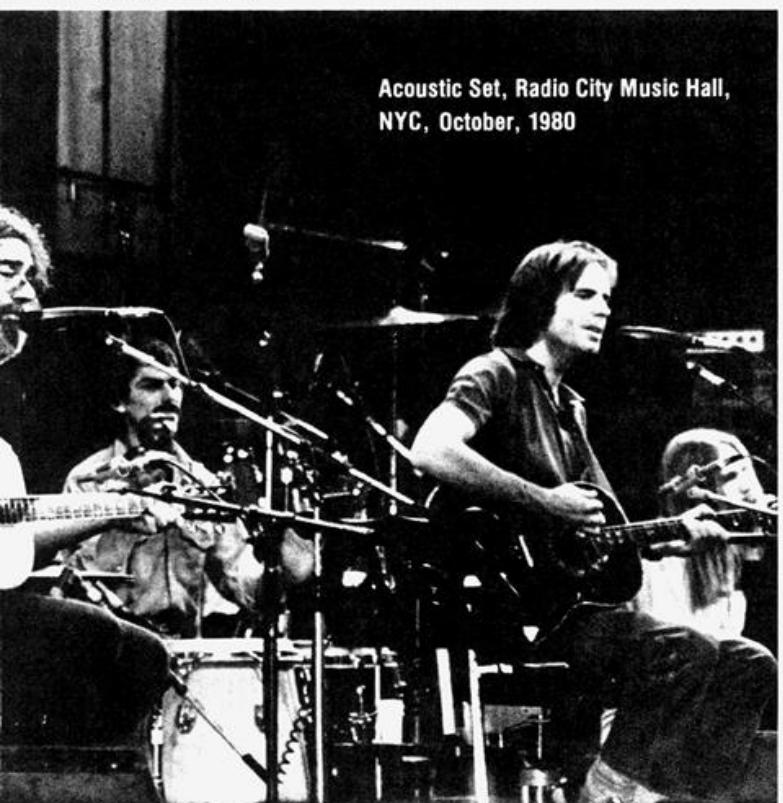
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Red Rocks Amphitheater,  
Morrison, Colorado  
July 27, 1982

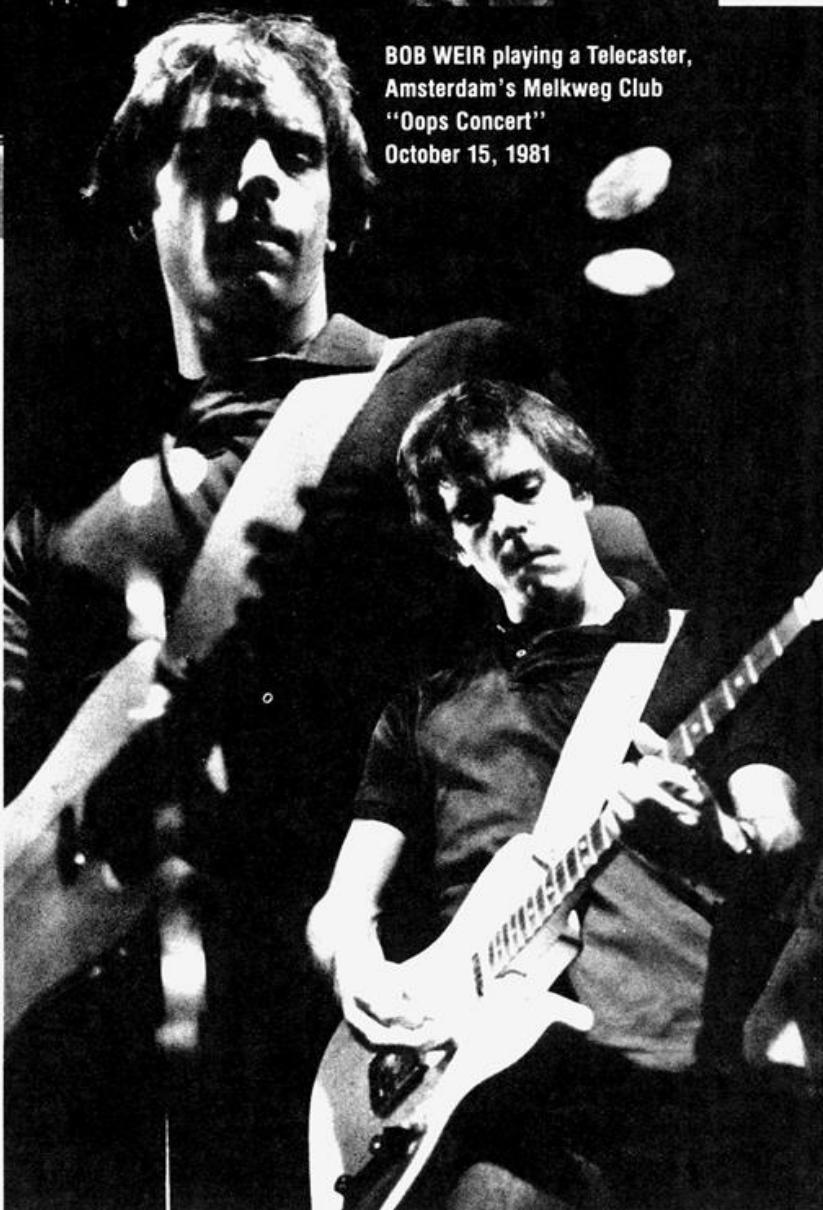


PHOTOGRAPHS BY  
BOB MINKIN

Acoustic Set, Radio City Music Hall,  
NYC, October, 1980



BOB WEIR playing a Telecaster,  
Amsterdam's Melkweg Club  
"Oops Concert"  
October 15, 1981



We know only this of Dire Wolff: he is a DEADHEAD. His cartoons and artwork have appeared in RELIX magazine and his occasional offerings to HIGH TIMES are highly regarded by staff and Deadheads alike. Even Jorma Kaukonen was moved to insist Dire receive sacred DEAD concert tickets, as acknowledgement of official DEAD approval. Here we print an adaptation of some of Dire's recent observations.

# GRATE TAPING

continued from previous page

had. One dude in New York claims to possess every note of music the GRATEFUL DEAD ever played. This is interesting, but doubtful.

Audio recording isn't the big problem any more anyway. The big new problem is the videotape. I recently saw two tapers pull a very hip scam. The first guy showed up with a Sony SuperBeta Stereo Hi-Fi deck and said he wanted to record audio only. The stuff didn't stand out from the rest of the home-brew equipment and so the guy was allowed to set up. He even got a 117V line and proceeded to condition it from RF feedback, etc. The other guy snuck in the low light (Wong-Wong) camera and an 8mm Kodak Cam-Corder.

Just before the show these two guys plugged in. They must have rehearsed this routine dozens of times. If they managed

to pull it off they would get a high-fidelity stereo audio and two-camera video production for next to nothing.

The first camera was set up as a master shot and was operated by the audio guy. He could zoom, but no pans. The other guy got all the art shots—the closeups and pans—with the 8mm and the better lens. The audio guy had a companion who was out in the audience shooting crowd reactions and intercuts with a super-8 cine.

The three later edited this "shoot" and made a home movie. The whole thing probably cost them \$3,000; if they rented the equipment, a bit less. So why all the chicanery? Take a guess what a copy of this sucker would be worth in smoke. Try 10 or 20 copies, and the second-generation income is good too. This one tape could well generate a million dollars in the barter economy.

—H.H.



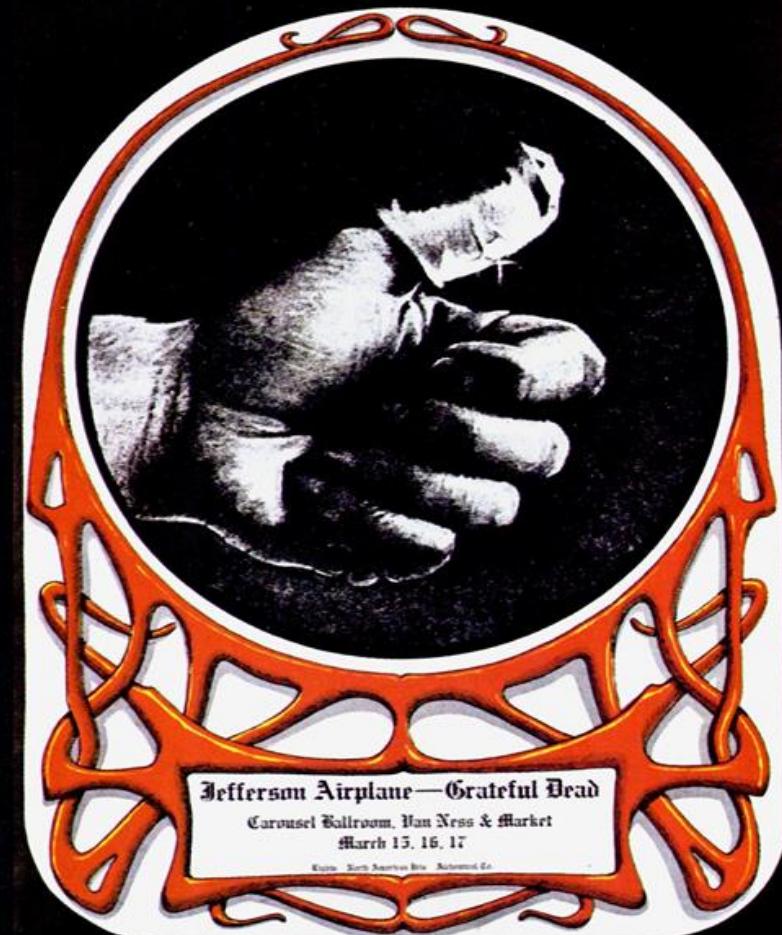
# DEAD

DEAD HEADS collect much more than just concert tapes—they also support a burgeoning memorabilia industry. Two fanzines, RELIX and UNBROKEN CHAIN, are devoted to the band and countless buttons and t-shirts have appeared over the years. Our favorite, however, is the Jerry Garcia cabbage patch doll shown below.

PHOTOGRAPHS BY  
ANDRE GROSSMANN







*continued from page 41*

The **GRATEFUL DEAD** are like football players. They play with pain. The show must go on. Phil, Jerry, and Mickey are stoic, like Miles Davis never looking at the audience, hardly ever talking. This attitude is seconded backstage by Robert Hunter, Garcia's pal and **THE DEAD**'s prime librettist. Hunter is so nervous he has problems with syncopation, yet his lyrics have been compared to those of Bob Dylan, and to the verse of Dylan Thomas and James Joyce. He has written novels on an Osborne portable computer but refuses to let anyone see them.

Sometimes Bob Weir, the gregarious rhythm guitarist, feels he has to explain why the band is "getting their act together." Sometimes he is the spokesman for the band, and announces that it is Garcia's birthday, or somebody else's birthday. Weir is the bright-eyed and bushy-tailed type. Bret Maitland, the present keyboard dude, of Scots ancestry, and Bill Kreutzman, the original Warlock drummer, most often watch the goings-on with a kind of acerbic detachment; yet they, too, are the consummate professionals.

All of the band members agree that a little

thing like athlete's foot or even the clap will not hold up a gig, but if Garcia actually ever died that would be a different thing. The name will go on no matter what, because Phil once told me he felt that the tradition should be passed on from generation to generation.

## Marin

I guess you really can't understand the **GRATEFUL DEAD** unless you understand Marin County. Marin, that odd little county just north of San Francisco across the Golden Gate Bridge, is full of jive, yet it is the foundation for **The Whole Earth Software Catalogue** and a number of "free school" experiments, and it remains the rock and roll capital of the West Coast. Marin boasts more celebrities per capita than Hollywood, yet there are many poverty pockets.

The **GRATEFUL DEAD** are a microcosm of what goes on around the rims and rills of Mount Tamalpais, a gentle Alp that drops off into the sea after generating lush rolling meadows and breathtaking vistas.

*continued on page 66*

DANCE

CONCERT

ERIC  
BERNIE  
ZAC

SUNNY DODGES FEST  
2012

GRATEFUL DEAD  
BIG MAMA MAC AND RANDO'S  
RAM ROSE HEY DOG  
DECEMBER 10  
FILLMORE AUDITORIUM

CANNABIS CONNOISSEUR



1



2



3



4



5



6

PHOTOGRAPHY BY ANDRE GROSSMAN

Making high quality hash is a lot easier than most people realize. All it requires is a high-grade silkscreen, a credit card, and cannabis. Hash made by the silkscreen method is frequently smoked by growers, but seldom appears in the marketplace. It's just too expensive—by current commercial standards, one ounce of the finest homemade hash should be worth around \$5500.

It is possible to rub leaves and obtain fine quality hash, but I was feeling a bit decadent during this session and decided to rub the middle and bottom buds that normally would be sold or smoked by the grower. I chose California Orange as my variety, a stable well-blended *indica-sativa* (mostly *indica* hybrid) that has won at least two California harvest festivals. If ripened sufficiently, it makes very good hash (see photo 1).

When preparing hash, the plant should be bone-dry: at least four weeks from harvest, preferably more. The silkscreen should be monofilament polyester. The screens are fairly inexpensive, costing only around \$25, and are ordered by mesh number: the higher the number, the more holes in a given area. I have found that a 110 screen is adequate and yields potent, if somewhat light green hash. After the screens reach 125, very little vegetative matter passes through, and the hash becomes more golden.

Using a credit card, I gently brush the plant material across the screen (photos 2, 3). Although it's called "rubbing," I never actually rub. Friction separates the resin glands from the vegetative matter. I usually brush the same plant material twice across the screen.

After rubbing, I wash my hands of vegetative matter. This prevents any contamination of the resin powder under the silkscreen. I lift the screen and scoop the hash into a pile (photo 4). With a little pressure, the hash powder is easily worked into a hard, tight ball of pure glandular trichomes (photos 5, 6).

What do I do with the vegetative matter after I make hash? Sometimes, I put it into a coffee filter and fill the filter with petroleum ether (available from chemical supply companies). I pour the ether through the filter into a wide, flat dish, let it drain, and repeat the process. After the ether evaporates from the dish, it leaves a residue similar to hash oil. The vegetative matter is then discarded.

Incidentally, this process should be performed outdoors and with rubber gloves. Petroleum ether is highly toxic and extremely flammable! To make sure the ether has evaporated, just add a little water. When the water has evaporated, then you know the petroleum ether has too. Not all varieties of marijuana make good hash. Here's a list of some that do:

OUTDOOR  
California Orange  
Skunk #1  
Early Pearl  
Mazar I Sharif

INDOOR  
Northern Lights  
Hash Plant  
Big Bud  
Afghani-Durban Poison





**THE CONNOISSEUR'S DELIGHT**  
PURE GLANDULAR TRICHOMES  
FROM CANNABIS CALIFORNIA ORANGE



# HIGH TIMES

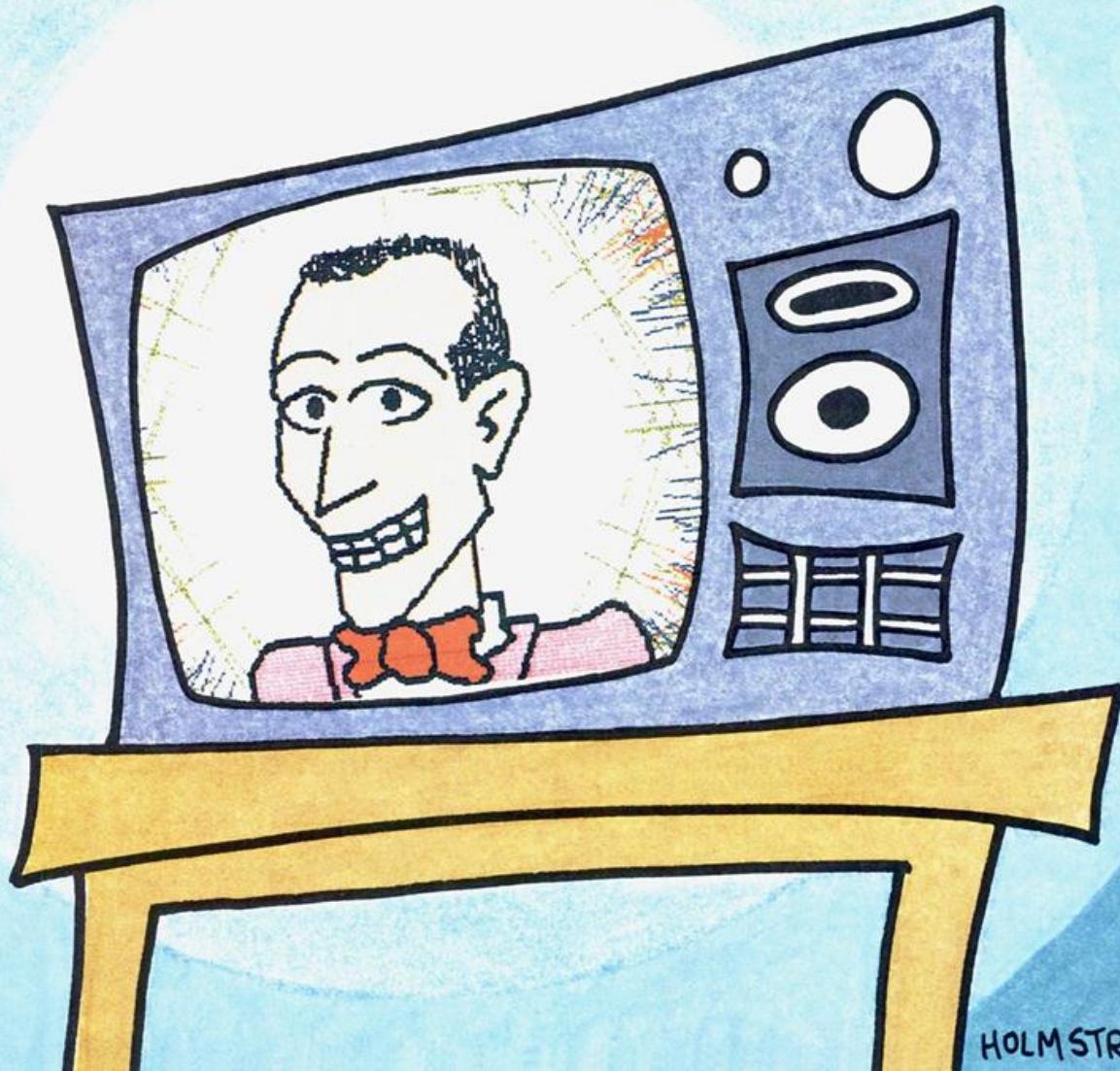
## GUIDE TO SATURDAY MORNING TV

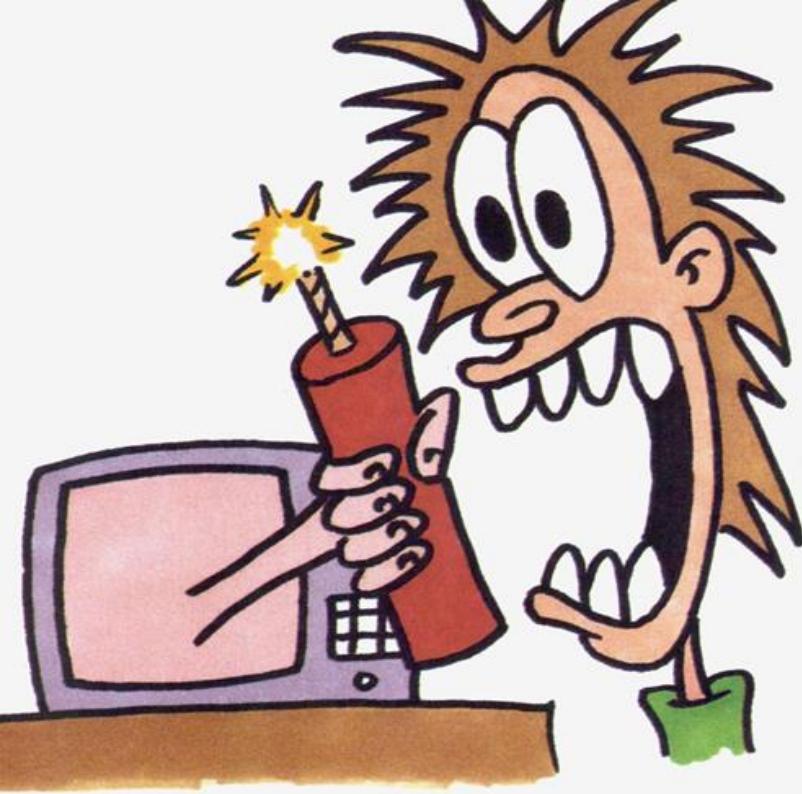
Story and Illustrations by

John Holmstrom

**Cartoons are like acid trips—**

there's nothing better than a good one, and nothing worse than a bad one. By the late '60s, when the last of the great TV cartoons like "Tom Slick," "George of the Jungle," and "Milton the Monster" left the tube, cartoons became one bummer after another. Hanna-Barberaism sacked the tube. Animation got so limited that even lips barely moved. Saturday morning shows, with little or no action, lousy stories, terrible voices, awful music and sound effects, and uninspired characters, became storyboards with sound.





By the early '70s, things had pretty much bottomed out—cartoons couldn't get any worse! But things in the cartoon biz slowly turned around, thanks to cheap foreign labor, new animation technology such as xerography and computer imaging, competition from new animation studios, and the promise of big bucks in videocassette sales. By the mid '80s, Saturday-morning stuff like "The Smurfs" and the remade "Alvin and the Chipmunks" was better than awful, and mediocrity became the weekly minimum requirement.

Now Saturday morning and weekday cartoons are again worth watching for kids of all ages. If you haven't checked out what the cartoon lovers of America are getting stoned on lately, you should. There's some primo stuff on!

The brightest light in the Saturday morning scene is **Pee Wee's Playhouse**. Pee Wee Herman has revived the kiddie-show concept in grand, psychedelic style. His Saturday

morning warp-out (*CBS, 10:00 a.m. EST*), stars **Pee Wee** and a large supporting cast of robots, dinosaurs, wizards, knuckleheads, and assorted weirdos. Regular **Playhouse** bits include *The Secret Word* (everyone, and that includes you kids out there in the audience, screams whenever someone says it), *The King of Cartoons* (who introduces all-too-short snippets from obscure '30s cartoons), and *Penny* (a clay-animated, kid-narrated cartoon). The playhouse itself, designed in a masterfully kid-grotesque style by **High Times** cartoonist Gary Panter, features enough living chairs, talking goldfish, magic desks, ant farms, and visual treats to keep your mind fried trying to keep up with it. The music, by Mark (DEVO) Mothersbaugh, adds a lot of zip to the zaniness. Pee Wee Herman rides herd over the madness. If you hate him from all his David Letterman appearances, watch it anyway. **Pee Wee's Playhouse** finds him in his natural element—a twisted, goofy, kiddie-show host.

**Playhouse** is a whacked-out mishmash of every video-animation technique in the book, slapped together with every kid-show cliché that time forgot, a few funky film clips, and tons of fun. Episodes are one long, rambling, obnoxious non sequitur, serving only to introduce bizarre special effects, fun activities, and semimusical interludes. It's a delicious visual treat that's so tasty your brain will embrace the forced vacation. (Rumor has it that its popularity will soon spin off a special weekend late-night rebroadcast.)

The best cartoon on Saturday mornings is **Galaxy High School** (CBS, 11:00 a.m.), a super-stoned takeoff on Archie and Jughead. If the spacey theme song doesn't grab you right away, then *stop reading! You must hate cartoons!* It introduces super-jock Doyle and the bookish Amy (the cutest cartoon QT since Betty Boop), two earth kids who are chosen to attend Galaxy High, where they learn to co-exist with a bizarre assortment of crazed alien classmates and extraterrestrial teachers. (Naturally, the jock falls flat on his face while Amy the bookworm becomes queen of the new school.) As strange as **Galaxy High** is, it doesn't capture the alienation and culture shock of going to a regular American high school, but it comes close enough.

Although the scripts occasionally descend to the level of a sitcom, the basic premise of the show, courtesy of Chris Columbus of *Goonies* and *Gremlins* fame, keeps things interesting. The spaced-out characters, outer-space setting, detailed animation, future-tech soundtrack, and comic/cosmic high-school synonyms carry the show.

The next kid-vid treat that's not just for kids is **DangerMouse**, the syndicated import from England. The best thing about **DangerMouse** is the one thing all other cartoon factories seem to ignore—the writing. The stories are funny, the characters interesting, and the situations imaginative.

**DangerMouse** is a James Bond/Sherlock Holmes type who gets involved in absurd adventures that are somewhere be-



tween *Through The Looking Glass* and "Get Smart." His faithful assistant and second banana, **Penfold**, reacts to the way-out situations that never seem to faze the impeccably imperturbable **Mr. Mouse**. Like "Bullwinkle" before it, **DM** doesn't talk down to its audience, and takes its time in telling a good story. Unlike "Bullwinkle," the artwork is well rendered, and the animation is excellent. If you get that great cable network, *Nickelodeon*, you'll find **DangerMouse** on *weeknights* at 7:30. Otherwise, if he's not on your local stations, try to get the **Mouse** on tape. It's worth the trip!



Then there are the remakes of those old faves, **The Jetsons** and **Gumby**, which can be seen in syndication around the country. **The Jetsons** were Hanna Barbera's saving grace, their best TV work ever (with the possible exception of the early "Flintstones," although they borrowed too much from "The Honeymooners"). The new **Jetsons** episodes stand up to the originals; unlike the CBS "Twilight Zone" ripoff/remeake, these are the real thing. The same can be said for the new **Gumby** episodes. Happily, the creators (the original Clokey, of course) left well enough alone, and produced a slew of new **Gumbys** that rate with the originals. In fact, the clay animation looks better than ever.

Unless you're slightly retarded, the pickings begin to get slim after that. Sure, CBS's **Teen Wolf** and **Muppet Babies** are sort of interesting (*10:30 and 9:00 a.m., Saturdays*), and Disney's **Adventure of the Gummi Bears** (*8:30 a.m., NBC*) is, like any Disney show, passable product. But the adult brain stops there. Most cartoons fit into the "*we need to push this new toy we're marketing*" genre, like the **Pound Puppies** mess, or the **Get Along Gang** dope, and the whole **Wuzzles, Kissyfur, Foofur, Ghostbusters**, and **Real Ghostbusters** *YEEUCH!!!* These are tailored *strictly* for the four-year-old mind, and, although the animation is sometimes crafted, they're barely watchable.

If you like watching TV with the sound off, the quality of animation alone makes syndicated sci-fi adventures like **Thundercats** and **Silverhawks** interesting. The stories suck, but sometimes the animated effects, usually featuring lots of melodramatic puke, satanic retch, and heavy-metal barf, are worth the price of admission (free, but still worth it).

Of course, there's always the flip side to cartoons, for those whose minds are so gone that they *enjoy* bad TV. For gonzos, wackos, and lowlife scum whose idea of high culture is **The Gong Show**, there's **Rambo**, a cartoon so surreally awful that it makes the Sly Stallone movie look like *Citizen Kane*. **Rambo** has it all—stilted dialogue, wooden acting, ridiculous plots, and animation so limited it makes watching paint dry seem exciting by comparison.

There are plenty of other candidates for the so-bad-it's-good file, like **Challenge of the Go-Bots**, or **Photon**, the live-action bargain-basement *Star Wars* rip-off. None of them match the true god-awfulness of **Rambo**, but they're close.

I heard that Ted Turner didn't buy the MGM film library for the right to colorize those old movies. Nope, he really wanted the rights to those Fleisher Brothers *Popeye* cartoons, which belonged to MGM, so he could see those black-and-white beauties in color. In fact, before the computerized ink had dried on his new, color *Maltese Falcon*, he had the classic Popeye cartoon *Goonland* translated into full color.

*Superstation's Tom & Jerry* features all the kid classics from the past, for two hours and thirty-five minutes' worth every weekday (6:00 a.m. to 3:05 p.m.) and two hours every Sunday (7:30 a.m.). A typical menu includes a couple of *Tom and Jerry* cartoons, a classic Warner Brothers *Looney Tune* or *Merry Melody*, a *Three Stooges* short, an MGM **Tex Avery** cartoon, a *Little Rascals/Our Gang* short, a *Popeye*, and *Huckle and Jeckle*. If one of your favorites is not on that list, you must be brain-dead!

What sets the *Superstation Tom & Jerry* apart from the ordinary cartoonorama is that you can see these masterworks in their entirety. All the parts the censors usually clip out, to protect us from the sex, violence, and racism in the cartoons, appear here in all their glory.

When I called WTBS to find out about the

**The brightest light on Saturday morning is Pee Wee Herman, who has revived the kiddie-show format in grand, psychedelic style.**

old Popeye cartoons coming back on the air (perhaps the most significant development in Western civilization in the last ten years), I spoke with Al Hardee, the programmer who's responsible for structuring the greatest show on earth. It was obvious that this show isn't designed by accident—this guy knows his cartoons! He even promised me that he'd try to find the Milt Gross MGM cartoons. See, Milt Gross, perhaps the greatest American screwball cartoonist of all time, managed to get two cartoons of his work filmed by MGM; the idiot executives then running the studio thought they were garbage, and canned them in an act of typical corporation bullshit.

*So skip those soaps!* Forget those game shows! Check out this kid-vid stuff! If you don't get up early enough to enjoy it, or work during the day when it's on, get that VCR grinding! Get that cable TV, or that satellite, too. Most of the best stuff is on cable networks. Of course, once you get a VCR, you can rent, or buy, great tapes like Rhino Video's **Weird Cartoons**, or the Fleisher **Superman** and **Betty Boop** cartoons (*beware the color versions!*), or the MGM **Cartoon Magic** tape, or... well, I could go on forever! ●

# GRAVE-DIGGING WITH TIM WARREN

About ten years ago, Tim Warren began collecting records made by obscure teenage rock bands in the '60s. Warren discovered he liked this music far better than anything he heard on the radio. He liked it so much, in fact, that he decided to self-produce an album of original, bare-bones garage songs like "No Reason to Complain" by the Alarm Clocks and "That's the Bag I'm In" by the Fabs.

The songs lacked professional polish, were incredibly obscure, and the bands had long since dropped out of sight, but the music was refreshingly unpretentious, especially when compared with the pathetic state of pop music in the early '80s. Warren titled the album *Back From the Grave*, and he released it on his own label, CRYPT. The cover, drawn by Mort Todd, shows a teenage zombie in a graveyard burying his most-hated records, which include those by Genesis, Hendrix, Zappa, and Bowie.

The album sold surprisingly well to a small but devoted cult following. Since then (without the benefit of press support), Warren has released five more *Back From the Grave* records filled with some of the finest tunes in the annals of rock. Without his efforts, many of these classics would have been lost forever. For this reason, Warren has become something of a hero in *HIGHTIMES* circles, which is why we invited him over to tell his story.

—Steven Hager

\* \* \*

I was born in New York City in 1960, I lived there for about a year, and then my family moved to Greece. I didn't hear any rock until I was 12, when my family moved to Maine.

I was a complete outcast at school. Everyone thought I was Greek or a millionaire, or a hippie because I had long hair. I started an underground paper and ragged on everybody. I was always an outcast. I guess that's why I like bad music.

I didn't get into buying records until I saw the RAMONES and the REAL KIDS in '77. I started reading BOMP magazine that same year. Those two things changed my life. I got into brutal '60s records, but the way everyone was talking about how scarce the records were, I figured there couldn't be much stuff available.

In October 1978 I was working in a record store in Amherst, Massachusetts, when I discovered the first two Pebbles albums, with



bands like the LYRICS and the GRAINS OF SAND. What great records! The songs are considered classics today. After that, the *Boulders* series came out, and the first one was great! Then I dropped out of college, moved, and found two copies of a record by the SQUIRES. At that point, I started buying records like a madman.

I sold most of my '70s records when I moved to New York in 1980. I was out on St. Marks Place selling records, trying to make enough money to pay my rent. I tried deejaying, but it was no use. Everything was turning into this New Romantic crap. I was playing rockabilly, surf music, '60s



punk, and mixing in a little modern stuff, like the CRAMPS, the FLESHTONES, or the RAMONES. It was all fun stuff, but nobody ever danced. I got thrown out of the deejay booth after an hour. The guy who came in put on a ten-minute *Mott the Hoople* song and everyone immediately started to boogie. At that point I gave up deejaying.

The main reason I started CRYPT was because I was sick of buying compilations billing themselves as "60s punk" when they were made up of only a few real '60s punkers, along with some okay attempts at the punk sound by a studio group, an acid-head psychedelic clunker,

and some pre-bubble pop crap. Between the time *Pebbles #1* came out and 1983, close to 100 '60s punk compilations came out, and only about ten of them were close to being representative of mid-'60s punk. By "punk" I mean teenage bands singing about the small world around them: girl problems, problems with squares, or just completely demented, purposeless, trash songs.

There isn't any anger or teenage feeling in most psychedelic songs, where the usual topic is love, colors, and the "groovy" world that exists when tripping. Drugged intellectualism and musical "chops" killed rock 'n' roll, thanks to the

# GRAVE-DIGGING

BEATLES, the San Francisco scene, and HENDRIX. I can listen to some of the CHOCOLATE WATCH BAND, but I draw the line with most psychedelia. I don't like a lot of chord changes. I HATE noodling guitars!

The teenage groups had nothing. They bought their equipment by mowing lawns. They taught themselves to play. Their parents drove them to gigs. They were shit on by the oh-so-mighty critics and the scum mags like *Rolling Stone*. They paid to record and press their own records. That's rock 'n' roll!! Not the asslicking, haircut-video, big-contract, private-jet garbage that's been going on since the adult world decided they could make some bucks supporting rock!!

It was hard tracking down a lot of the bands. You'd have a record. It would have an address on it. You'd drive to the town and look in the phone book for the last name of someone in the band. Hopefully, someone would have a name like Derzilneck. But then you'd go to Chicago and find two million Derzilnecks!

The age of most band members was between 11 and 18. They usually broke up the summer they graduated from high school. We tracked down this one group from New Mexico called the CHOABS. I asked them, 'What is a Choab?' Turned out it was a slang term for big zit. They called themselves the Big Zits!!

The story of the KEGS is the saddest of all. They were complete outcasts. Their instruments were out of tune. I think the guitar player tuned up during the song. They changed their name after every gig because no one would ever ask them back. One of them is still a recluse and wouldn't talk to us, even though he's a millionaire car designer.

Generally, the response is really negative when I contact a band. They think it's a high-school friend playing a prank on them. They hang up. That's why we pay royalties. Otherwise, we wouldn't even get in the door.

The music today, it just keeps getting worse and worse. There are a few good bands still doing this music, like the LYRES, the FLESHTONES, the CHESTERFIELD KINGS. But I can't stand it when they take modern studio technology and play garage. It comes out really tacky. My all-time favorite band? The SONICS.●

# BACK FROM THE GRAVE



## ROCKIN' 60'S PUNKERS!

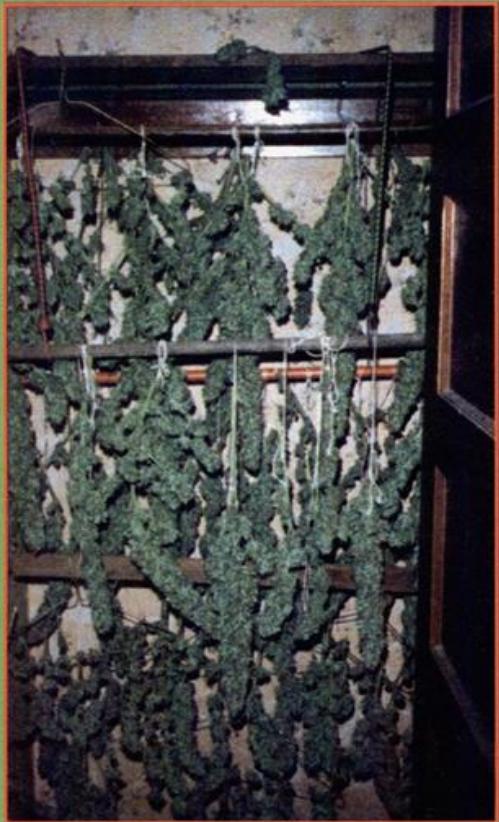


## GARAGE '16 PUNKERS PRIMITIVE TEENAGE ROCKIN'!



# A?KED

BY ED ROSENTHAL



## BUD OF THE MONTH

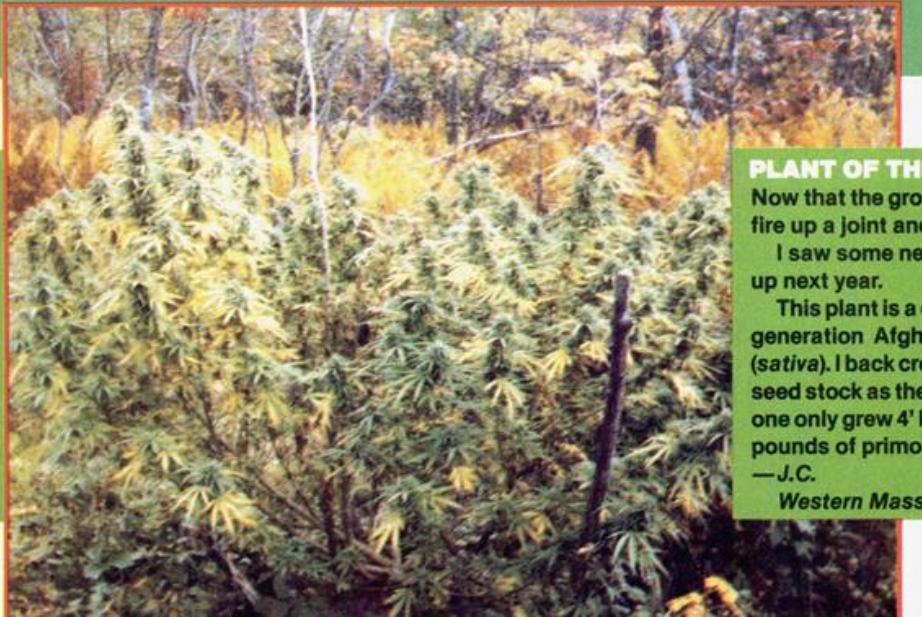
This is our first crop ever! We started with seven plants, had to pull five of them because they were males. This is what we got from two skunk sinsemilla plants we harvested. We had approximately three lbs. of the best tasting weed around—that is, while it lasted, which wasn't long!

Smoked the last bud Xmas Day, fantastic weed!

We thought you would like to show some of your readers what we can do down here in Merced County, CA. We look forward to seeing the results the second time around.

—G & K

*Buds from Merced County, California*



## PLANT OF THE MONTH

Now that the growing season has come and gone we can sit down, fire up a joint and plan for next year.

I saw some new crosses this year, can't wait to see what comes up next year.

This plant is a clone from last year's crop. The mother was a sixth generation Afghani (*Indica*). The father was a red hair Mexican (*sativa*). I back crossed this plant with a male Afghani from the same seed stock as the original mother. Let you know what happens. This one only grew 4' high but was almost 8' across, and yielded over 1½ pounds of primo bud.

—J.C.

*Western Massachusetts*

## GARDEN OF THE MONTH

Only four months old. Planted 4-12-86.

Photo taken 8-14-86. Sativa.

—A Satisfied Grower.

Rockford, Illinois

**BELOW** — Ion exchange absorber.

Worth its weight in gold. Only the purest water for mine!



Dear Ed,

I have read a number of articles on grow rooms. They seem thorough for the most part, covering lighting systems, air, temperature and humidity controls, and growing mediums. However, most of the articles do not address water quality.

Both city and well water often contain contaminants that affect plant growth. Grow books often suggest letting water sit to remove chlorine. But what about the other impurities, such as organics and chloramines, phosphate complexes, and undissolved solids?

I use a water-filtration system that removes them all. First the water is run through a roughing cartridge called an ion exchange absorber, then through a filter. My small system can purify water at the rate of five gallons per hour. The cartridges last about six months and are disposable. This assures me high-quality water by removing all the impurities and leaving the water with a pH of 7—neutral.

With these systems it is wise to use a reservoir to hold enough water for the system. The container should be made of dark plastic so light does not filter through, which would encourage the growth of algae.

—A Satisfied Grower  
Rockford, Illinois

continued on page 73



# SUPER SATIVA

We first started growing eight years ago in 10-liter (3-gallon) containers using Colombian and Thai seeds. The plants were allowed to grow under metal halide lamps for five months and then were flowered for two. After the first crop we harvested, we decided to automate the watering system. In horticulture magazines we saw hydroponic setups; we visited suppliers and straight greenhouse growers, who were happy to show us how they cultivate. (We always look to straight horticulture here in Holland—no need to reinvent the wheel.) We also realized that 90% of the plant's potency is genetically determined, so we took a trip to the US in a quest for good seed. In California we found a sativa-Indica creeper variety with an excellent Colombian high.

We grew our second crop in rock wool, letting the plants grow for three and one half months, then flower for two. We



● Before we started to use Rockwool, we used one gallon pots with a styrofoam-aggregate mix. These plants were spaced about one foot apart.

ended up with plants 2 to 2½ meters (6 to 8 feet) tall. The harvest was good. In 10 square meters (a little more than 100 square feet) we had 16 plants. The plants averaged 150 grams; the biggest yielded 225 grams. We thought that was a lot. Too, the grass was well received because at that time, sinsemilla was still a novelty in the Netherlands. However, we had not yet realized the most important thing

about growing in rock wool: it needs good drainage. Also, about 30% of the water from the nutrient solution irrigating the material must run off to prevent a salt buildup, which can lower yield and is toxic at high levels. We measured high EC (electrical conductivity) levels. The instrument measured a level up to about EC10, when it should have read about EC2. This indicated that salt residues were building up in the medium.

By the third crop, we had decided to shorten the vegetative cycle, so that the plants were kept shorter and more manageable. We had always thought that plants could not flower until they were several months old, but we experimented and found that cuttings we had placed under a flowering light cycle responded just like their clone mothers. We also found that seedlings placed under this same light cycle would respond with flowers in about four weeks, the males indicating first. This information caused us to change our growing techniques radically. We continued experimenting, and have now developed a system that produces an incredible yield.

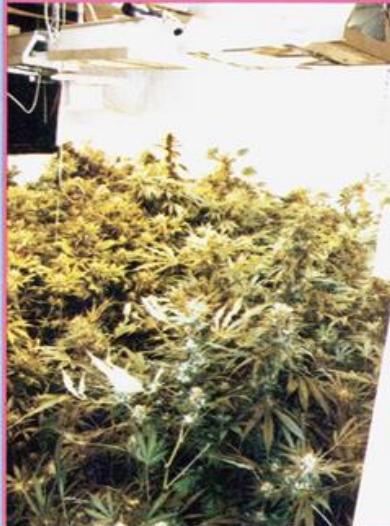


# INDOOR GROWING BY THE PLANTLET METHOD

by Super Sativa Seed Club

Starting with 10-centimeter (about 3½-inch) clones in 6½ -centimeter (about 2½-inch) rock wool cubes—or 10 to 15 plants per meter—we let the plants take root. This takes about two to three weeks, depending on the seed variety and weather conditions. We have had our best success taking cuttings from the part of the branch just above where it becomes woody; they root the fastest. With these we have a success rate of about 95%. After the cuttings start to grow rapidly, we let them go for another two weeks; each plantlet grows to an approximate height of 30 centimeters (about 10 inches) before they are transplanted and placed in a separate flowering room. (By using two rooms there is no downtime; the next crop of clones goes into the flowering room as soon as the previous crop is done.) There are four plants per rock-wool slab, which measures 100 by 20 by 8 centimeters (34 by 7 by 3 inches).

The plants are allowed between 10½ and 12 hours of darkness each night. The *Indicas* require fewer hours of darkness, the *sativas*, more. We try each variety at



Well-formed buds on the miniature plants in the garden.

10½ hours first, then lengthen the period of darkness if the plants don't respond. We think the more hours of light during the flowering cycles, the larger the buds.

The plant continues to flower for six to eight weeks, and will reach a height of 60 to 70 centimeters (17 to 20 inches), depending on variety. They are harvested when roughly about 50% of the pistils turn brown. This is earlier than most Americans harvest, but we prefer the high the younger buds provide, and we can then use the space for the new crop. (To get the American-style ripened bud with the false seed pod forming around dessicated pistils, another week or two of flowering is required.) By transplanting the plants into the rock wool after they root, then placing them in the big grow room, we get five harvests per year from the room. The yield per square meter per year is so large that we hesitate to mention it. But here it is: 1750 grams (about 12 ounces).

We are now working on a shelf growing system so that space can be utilized even more efficiently. For instance, if we have a space 3 meters square and use 2 meters for shelves stacked three high, in effect we have 6 square meters of growing space in a 3-square-meter area. •

# GREAT

BY JORGE CERVANTES



6



5

1. Louvered fans will help prevent backdrafts on cold days and let the air out when the fan is on.
2. This direct drive squirrel cage vent fan will change the air in a large grow room in just a few seconds.
3. This growroom lived through two electrical outages this winter.
4. These plants lived through two 32°F nights.
5. G.B. could find no freeze damage on this plant.
6. Healthy mid-winter bud enjoys a perfect climate for flowering.



1



2



4



3

# INDOORS

## COLD WEATHER GROWING

**G.B.**

awoke to a cool and quiet house. A glimmer of light shone through the open curtains onto the electric wall clock. He fumbled for his glasses, feeling the cold frames against his face, and squinted through the instant fog created on the lenses as he adjusted them in place. "Shit!" G.B. exclaimed, making out the hands on the clock frozen at 2:04 a.m. "The electricity must have gone off! I wonder what the grow room is like?"

G.B. jumped up, tripped downstairs to his shadowy basement, and burst into the grow room. With his first step he slipped on a sheet of ice. "Owwweee," he screamed as he was dealt a bruising blow to both buns. Getting up off the ice-covered floor, he realized that he was stark naked.

"How much damage was done?" G.B. wondered. "Where is the emergency flashlight?" He reached for the dark tube in the eclipse of the basement. "What a relief," he said aloud, as he carefully inspected the 18 plants for limp, lifeless leaves that would signify severe freeze damage. He shone the flashlight on the maximum/minum thermometer. The coldest it had been in the basement was 28°F. Now the temperature was just a pistol hair above 32°F. What luck. Essentially, no damage! Only the plastic PVC water pipe by the outside window had frozen and burst. None of the root balls had frozen nor had the leaves. G.B. manually lit the CO<sub>2</sub> generator to produce more heat until the lights came back on, then went back to bed.

Midwinter crisis can hit growers every time there is a power outage or an

unexpected freeze. Whenever the newspaper headlines read "Freeze Devastates Florida: Citrus Crop Lost" or CNN television news blurts out the story "Silver thaw ice storms land a crippling blow to the Midwest," indoor growers are affected. This unique "silver thaw" weather occurs when the ground is freezing and the atmosphere above is dropping warm rain. The rain adheres to everything on the ground, freezing instantly. A layer of ice builds up on trees, bushes, houses, cars, etc. Overhead power lines are loaded so heavily with ice that they fall down, curtailing phone service, electricity, and High Intensity Discharge (HID) lights in the area. To some of your fellow growers, these natural disasters could be as crippling as the natural disasters that outdoor growers are forced to live with.

Electrical outages and frozen pipes are easily dealt with by keeping a cool head and a warm room. If the lights go off, even for several days, the crop will slow down but not expire. After a weak couple of weeks of total darkness, plants will yellow and grow weak. Maybe a few will never snap out of the slow growth, but they should live. In the event of a power outage, use a combustion heater to keep the room above 50°F if possible, and always maintain the grow room above freezing. Take special care to keep plants watered but not soggy; it is more difficult to freeze wet soil than dry soil. The garden will bounce back to life once light is restored. Set the light timer at the beginning of the daylight cycle. When the electricity is restored, the switch will click "on" and the garden

will have a full day. Restore the garden to the regular light cycle in a day or two.

Severe weather conditions will also affect production. Most indoor gardeners will not suffer dramatically from outdoor weather changes. But there are a few basics that change during the winter no matter where your garden is located. Heading off any trouble ahead of time will keep you and yields high.

During the winter months, the sun has less time to heat the atmosphere, and cool northern winds dominate the weather. Outdoor air is much cooler than indoor air. This cool air should be warmed before it is introduced into the grow room. Cool air, entering a warm grow room, could stress foliage and render productive leaves useless. Cold air also makes air stratify and lowers the overall room temperature. Warm air exiting a grow room will suspiciously "fog up" when it is dumped into the cool outdoors.

Think about your grow room. Is it cool (below 60°F) and dry (below 50% relative humidity)? Or cool and moist (above 50% relative humidity) and venting to the cool outdoors a problem? A CO<sub>2</sub> generator might just be your ticket to a perfect grow room. The CO<sub>2</sub> generators burn propane or natural gas to remove the oxygen from the air so that an excess of CO<sub>2</sub> is created. Heat and water vapor are by-products of this combustion process. Arid climates (30% to 40% relative humidity) easily absorb the excess water vapor, and the heat helps the halides warm the grow room.

*continued on page 73*

# GRATEFUL DEAD

So breathtaking is Mt. Tam, known as the "Sleeping Lady," that people who live around her are enchanted—and also completely whacked out of their brains. This can lead to drug abuse and, since you have to have *mucho dinero* to live there full time, you can get lots of drugs. This can kill you.

Perhaps **THE DEAD** paradox comes from the Marin paradox. Marin is largely antiintellectual, a haven for rednecks, dropouts, crooks, and California natives. San Quentin, the oldest prison in California, dominates the views near Larkspur, but that's okay for **THE DEAD** because every last one of them was born and bred in California, most have done time for one thing or another, and all of them are second- or third-generation natives. Which means they have pioneer blood in 'em. This explains some of the bonding that has kept them going for what is now approaching three decades.

To be honest, I don't think Marin is a great place to live. The trees are nice but the people live in a vapor. It's a paradise with distorted values, a cultural cul-de-sac grown out of touch with the rest of the universe.

Marin is the home of quick cures, nasal surgery, and nitrous oxide dentistry. It is the center for the New Age scam. Mill Valley is a magnet for off-the-wall shrink fads and do-it-yourself lobotomies, for what Lenny Bruce called "nonscheduled theologies."

I call these quick-cure seekers "Presbyterian mystics" and "Pat Boone Communists" because they are so damn square. I don't know how, but the **GRATEFUL DEAD** seem immune to all of this crap. Maybe it's because they were vitamin and health-food addicts long before the New Age thing got started. In some ways they have grown into the Marin landscape and have become invisible, as clandestine and agoraphobic as Greta Garbo, and yet they have played before millions upon millions of people, stoned on nothing more than B-12 and ginseng juice.

RON REED/RICHARD MENUSTIK



## Politics

The **GRATEFUL DEAD** are radical. Lesh wanted to vote for Jesse Jackson in 1972, and he votes at every election by casting his absentee ballot. Wild political rap sessions are commonplace at **DEAD** family get-togethers, yet Marin—and the **Dead Heads**—are apolitical. Few people in Marin are radical or even concerned, except as they link up to the Republicans in Ross and Kentfield and Tiburon. However, Barbara Boxer, a brilliant politician with strong liberal leanings, fought her way to Washington from Greenbrea. Then there's the late ex-madame and mayor of Sausalito, Sally Stanford, another paradox.

## The Family

The **GRATEFUL DEAD** entourage and extended family, numbering in the hundreds, moved to Marin in 1968-69, primarily to

avoid the artistic repression they were experiencing in the city and on the road.

Haight-Ashbury had proven its point: San Francisco could raise an urban commune, similar to the Paris Commune of the 19th century. As long as the commune lasted it was glorious, but it soon fell into rack and ruin. Still, I think it was a marvelous experience, something to be proud of. It changed all our lives.

Most of us were positive radicals committed to Jeffersonian democracy, with a few IWW card carriers thrown in for good measure. **THE DEAD** are still that way—you don't change your stripes just because you have money.

In 1965, when **THE DEAD** began as **THE WARLOCKS**, marijuana was the epitome of evil. People were doing two years for stems and seeds. Acid was unheard of outside of our gang. **THE DEAD** family is an ongoing extension of a Haight-Ashbury

commune, yet you can hardly call these people hippies any more than you can call Steve Jobs, the founder of Apple Computer, a hippie.

Basically, the **GRATEFUL DEAD** have become a democratic oligarchy posing as a left-wing syndicate, with a few outriders who profess to being anarchists or utopians.

However, the **GRATEFUL DEAD** family is strong on matriarchy. This is similar to ancient Nordic and Celtic tribal structures. Everything is done by consensus, but the social stability is provided by the women, who inherit all the property when a warrior dies in battle and vow to remarry within the family. Examples of this are so common in **THE DEAD** that I am amazed.

## The Pecking Order

In essence, a command or suggestion always starts with a musician or a musician's spouse, except where, for various reasons, a manager-roadie like **Ram Rod** is elevated to musician status. Marriage, as we know it, is optional and fosterage of children is common. This may seem pagan to Midwesterners, but it holds the clan together.

Here we see the roots of the medieval fiefdom, with guild artisans bonding to a clan or city-state for survival. At this time in Marin County there are numerous power centers that are tantamount to baronies. As they are independent, they do not answer to an organized central authority. In many ways these baronies are holdouts from the Old West. The spirit of the cattle baron is alive and well in **THE VALLEY OF THE MOON**. For example, look at the Lucasfilms estate on Lucas Valley Road, a road *not* named after George Lucas' grandfather (contrary to popular belief). Then too, you can find **THE DEAD** family; a few Mafia lords; The San Francisco extended bosses; the power bankers of the Right; the **Jefferson Airplane** family run by Captain Tollbooth and the Iron Nun. Then maybe, if you hang out in the Trieste in Sausalito, you might make contact with David Crosby, now also healed and on a strong comeback trail. You might also spot Bill Graham just down from the cliffs of

continued over

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# GRATEFUL

Masada, his Mill Valley outpost in the sky.

## The Spinoff Bands

The **GRATEFUL DEAD** have divisions, disputes, wrangles, and feuds, but the spinoff bands are not caused by these disputes.

Instead, they sooth them. The major **DEAD** ensemble could not survive if it were not for the spinoff bands. They exist and proliferate in almost infinite combinations, feeding the main band with ideas. The spinoff bands are like little research and development units.

Names like **Too Loose Ta' Truck** and **The Diga Rhythm Band** or **The Healy-Treece Band** shadow the more well known spinoffs: **Kingfish, Ace, Garcia Band, Bobby and The Midnights, and Old and In the Way** (featuring Peter Rowan, a genius we hear almost nothing about these days).

The spinoffs satisfy another, more practical purpose: they tend to spring up just about the time the contract has to be honored. Sometimes a certain number of records have to be produced to satisfy contractual demands and there is no better way to muster lots and lots of wax on demand.

Although **THE DEAD** are not great money managers they have managed to keep some of the booty. They all have houses, pretty much free and clear. As mentioned earlier, Mickey Hart has a ranchito down the road from George Lucas. Phil Lesh has a nice house on a wooded hillside between San Rafael and Greenbrae. Bob Weir was never poor, and is the only guy I know who went from Rich Kid to Rock Star. We used to clean our dope in the drawer at the Navarro Hotel with Weir's Gold Amex card because nobody else had a credit card. This was super weird because Weir doesn't smoke anything.

I guess **THE DEAD** operate on David Crosby's philosophy: "When you run out of money, make more!" They never seem to stop making it and spending it. Wives and ex-

wives take a toll too. Then there are the hordes of children, services, and taxes—the list is infinite. In 1985 they earned almost as much as **Springsteen**. What is not generally noted is that they had to play ten times as many gigs as Springsteen, and they are older.

## Jerry Garcia

Rumors of Garcia's death are greatly exaggerated. He does not have brain cancer. He is not a drooling idiot. He was sick and now he is better.

He played better than ever on Halloween after a few small club warmups, and the New Year's Eve shows were well received. I think the only lesson he needed to learn was simply to put off well-wishers who offer him free drugs. The major impact his illness will have on the overall **DEAD** strategy is that they might be forced to take sabbaticals and play a lot of local or out-and-back gigs. This means the Oakland Auditorium, the Sacramento Fair Grounds, the new Mountain View Ampitheater, and the like. They may even become San Francisco's number one tourist attraction.

## Owsley: The Fifth Beatle

For decades the world has been held in awe by the concept of rock group cohesiveness. Why is it that some groups make it and some don't? My theory is that the ones that make it have the services of a "fifth Beatle." This is a manager who is almost as powerful as the band members themselves, a person who lives and works with the band and makes things happen.

**THE DEAD** have had a succession of fifth Beatles over the years. The first was the notable **Augustus Owsley Stanley III**. Owsley had an inordinate sway over the band in the early days and continues to enjoy some occult hold, although he has not been

the fifth Beatle since before he went into the federal pen in Terminal Island in the early '70s.

Owsley now haunts North Beach occasionally, and has a house in Marin and a piece of land in the Australian outback, set up with a tent and the bare necessities. It is here that he designs and executes expensive gold jewelry, lost-wax castings from gold he claims he makes alchemically. He commutes from San Francisco to Sydney and naturally, like any good psychedelic sailor, he keeps a family in both ports. I can tell you in all honesty we haven't heard the end of Owsley.

## Phil Lesh

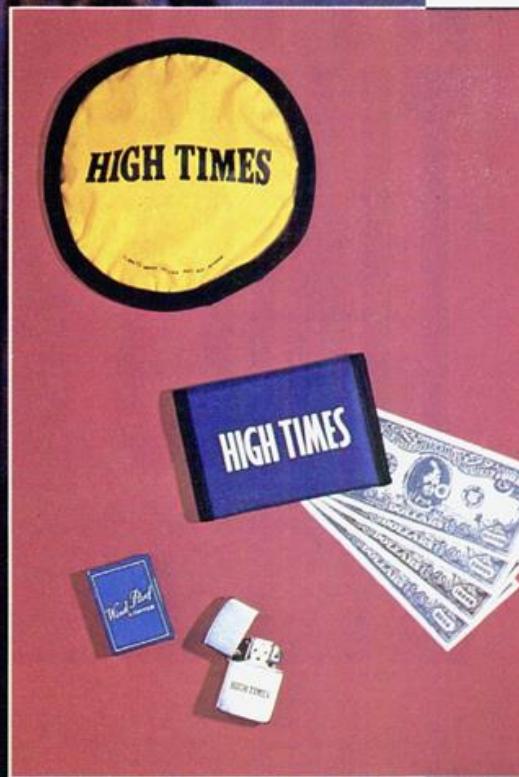
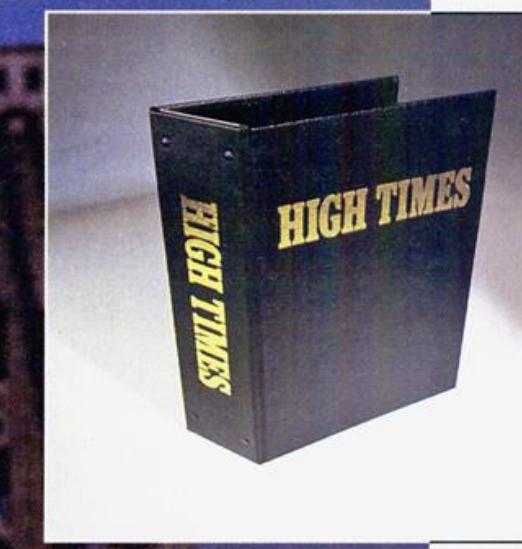
Phil is the **Magister Ludi** of the plot. His house abounds with musical scores from the Middle Ages and treasures of all kinds. He is an expert on the 15th-century Dutch cabalist **Jacolbus Obrecht**, a composer who apparently uncovered a sacred hidden nature in music that essentially launched 20th-century composers such as Mahler, Debussy, and even the American Charles Ives. In fact, Phil feels a direct kinship with Ives, as Phil's grandfather was, like Ives, a bandmaster in New England years ago.

Lesh is an accomplished classical composer and will perform a new atonal score with the Berkeley Symphony Orchestra this month. If the Berkeley gig goes well, the piece will be recorded.

I am not a visionary, I cannot predict what might happen, but I'm amazed at the rumors that keep circulating. Don't believe them. The **Dead Heads** may be hysterical as they look for **Pig Pen's** grave in Palo Alto, but the **GRATEFUL DEAD** themselves are as down-to-earth as a peyote button on a dewy desert morning.

# DEAD

# NOTHING TO HIDE?!



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# GREAT INDOORS

continued from page 65

When the grow room's walls are exposed to the light—such as a bedroom with external walls—the sunlight can help warm the room during the day. The HID lights are turned on so that the room is warmed and the plants experience "daytime" during the night. This solution lowers power bills and helps keep humidity in check in moist climates.

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The advantages of cool winter weather are many. CO<sub>2</sub> burners are a possibility for all but the most tropical climates. Heat buildup is less of a problem in warm climates. In hot climates and one-light grow rooms with CO<sub>2</sub> emitters, a good integrated timer system will help utilize CO<sub>2</sub> more efficiently and the garden will grow faster. Several indoor-gardening stores carry specialized timing systems that efficiently vent air and retain the maximum amount of CO<sub>2</sub>.

Basements are still the all-time favorite grow room location. A consistent year-round temperature is maintained by the earth-insulated walls. Security is also simple to monitor; basements are easy to seal off to undesirable visitors. But watch out! Basements provide such an ideal growing area that midwinter weather sneaks up unnoticed. Small changes, such as a drop in air temperature (which should be measured with a maximum/minimum thermometer) or water/fertilizer temperature, could shave 5% to 50% off the final harvest. Cold water can severely stunt plants. The roots are growing in a warm, secure environment. When cold 30° to 50° F water is applied, a multitude of root hairs are shocked beyond repair. Simple precautions will help prevent any unnecessary setbacks.

Indoor growing in deep winter can have its highs and lows. Experience cultivates the best highs. For many, the ultimate high is attained with a toke of smoke and taking a refreshing stroll through their lush indoor garden. Who else, besides an indoor grower, is able to live a few hours of summer in the middle of a blizzard?

This is the eleventh in a series of articles, "The Great Indoors," by Jorge Cervantes, author of the bestselling *Indoor Marijuana Horticulture*. ●

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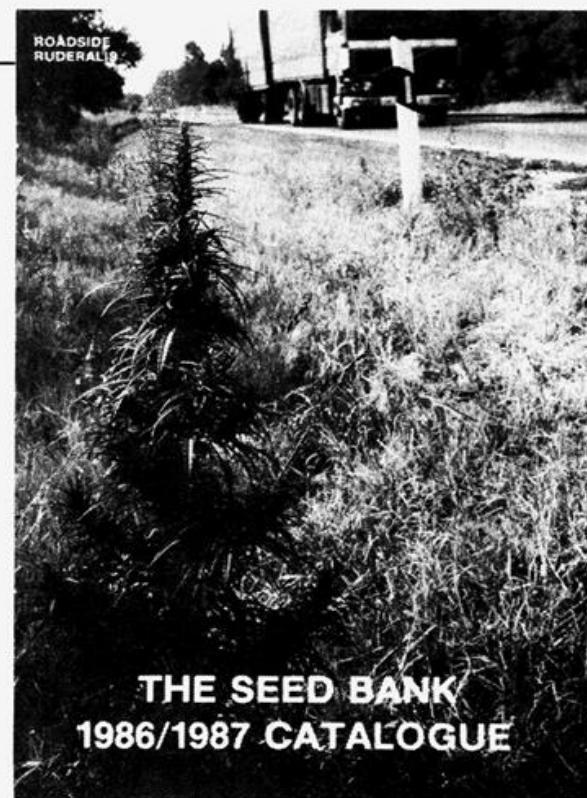
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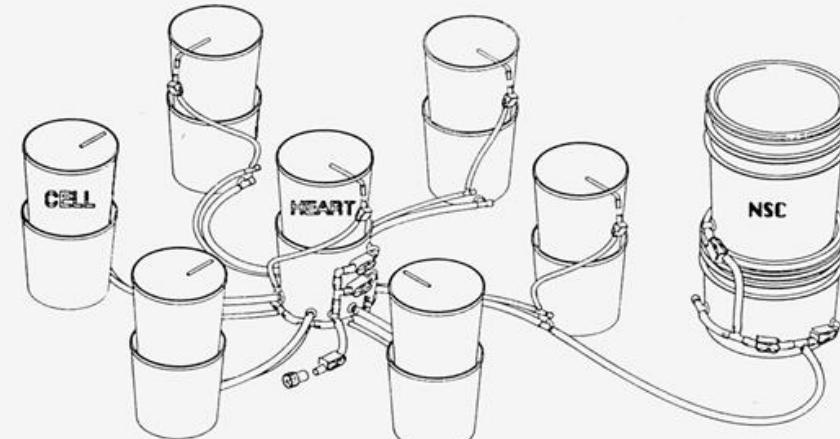
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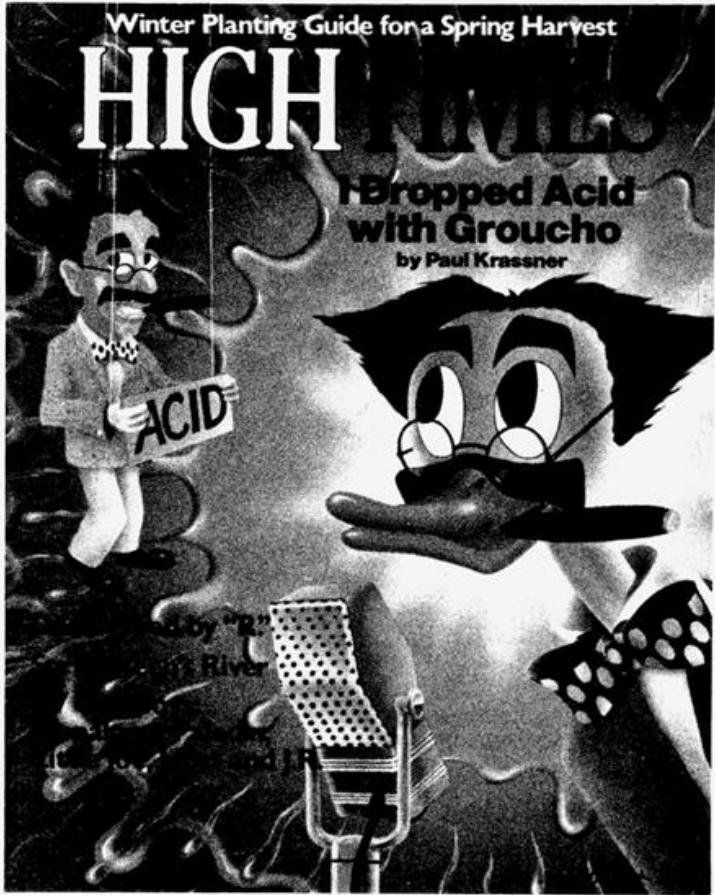
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# A S K E D

continued from page 61

Dear Ed,

A few years back I discovered a fantastic new use for marijuana. I am a beekeeper, and I use a smoker (a bellows-type device similar to a power hitter) filled with old cotton T-shirts to blow the smoke from the burning cotton into the beehive. This fools the bees into thinking the beehive is on fire. Predictably, the bees leave the hive posthaste, which allows easy removal of the honey.

One day I had an excess of home-grown, so I placed it in the smoker and lit it, then blew pot smoke into the beehive. The results were amazing: the bees were thoroughly subdued by the pot smoke instead of being highly agitated, as they are by the cotton smoke, thus allowing me to rob the honey without the slightest chance of being stung.

—Carl the Slavic Beemaster  
Arkansas

Dear Ed,

This is my first year at growing indoors. I ended up with two females. One of the females grew pollen sacs and opened. Now there are seed brackets all over. How long should I wait to harvest? And will the seeds be any good?

—Sam  
Pulaski County, Kentucky

The plant was monoecious, that is, a hermaphrodite. The seeds will contain genes for hermaphroditism. The plant should be harvested as soon as possible.

Dear Ed,

I thought I would report on my experiences regarding the "Ask Ed" letter on cloning. The method I now use has given me a 100% survival rate with a total of 60 clones.

When I take cuttings I place them in small pieces of Styrofoam that have holes punctured in them for the stem to slip through. Then I let the stems and Styrofoam float in water and light them with 24 hours of fluorescent. After five days in water the cuttings are dipped in Rootone and gently placed in a medium of 75% fine vermiculite and 25% perlite.

After three days I apply a half-strength solution of Ortho Up-Start. In about two weeks the clone is ready for transplanting. I've rooted cuttings with one node and 1/16th-inch stem diameter. I can also root clones from a mother plant without leaching high-nitrogen fertilizers.

—Jim  
Central Iowa

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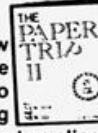
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**THE DEAD**



HANK HARRISON

## A S K E D

continued from previous page

Dear Ed,

When people write to you and ask about turning the lights back to induce budding, you tell them to go from 18 hours a day (actually continuous light, 24 hours a day) to 12 hours. It sounds like you're saying to do this all at once, overnight. I have read that you should reduce the photoperiod by one hour each week for six weeks. Please clear this up for me.

—Bud Resin

Shreveport, Louisiana

There is no reason to reduce the lights gradually. The plants respond more rapidly and without shock when the photoperiod is lowered all at once.

Dear Ed,

I have a one-acre ranchette: ideal for growing for my personal use. I usually start out with seven or eight plants, then thin out to two or three which carry me through the winter.

My wife is afraid of getting caught, especially with the threat of confiscation of our property. I thought confiscation was for those who grew a certain number of plants that could be considered for profit. Is this true?

—Serious

Ceres, California

Usually prosecutors in drug cases go after property that they "believe" was used for profit. However, the prosecution is legally able to confiscate any property used in "drug manufacture" (such as cultivation). See "Case in Point," p. 80.

Dear Ed,

Is there any way to "dwarf" cannabis? Something no more than 3 feet would be OK.

—Mac. Rio

U.S.A.

Aside from flowering the plants when they are at a small height, there are several ways to keep marijuana plants small.

Cannabis contains a gene for dwarfism. The Seed Bank in Holland has two dwarf plants growing in its laboratories. They also have normal sisters of the plants growing. The plants are fully grown, with full branching on a "Christmas Tree" plan, but the internodes are a fraction of an inch apart, and the leaves are tiny.

Some commercially available chemicals are used to shrink the vertical growth of the plant. Products containing alar (such as "Powerbloom") retard internodal growth.

Dear Ed,

I was reading an old book called *A Child's Garden of Grass* and it says to hang the plant upside down and spray it with a boiled sugar and water mix, bundle it into a bag, and place it in a hot and dry place until the leaves crumble at the touch. What I want to know, is this a good way to cure grass. If not, what is the best way?

—John S.

Philadelphia, Pennsylvania

That is definitely not a good way to cure grass. It sounds like everything will either be moldy or covered with sugar. Certainly not fit for smoking.

The best way is to trim the bush into branches cut into pieces 1-1½ feet long. Then let the plants dry slowly in a cool dry or warm, fairly humid environment. This way, the buds get to cure a little and lose some of their harshness.

Dear Ed,

I am just completing an indoor grow room and don't have the money to get expensive lights. I would like to know if fluorescent lights would be worth using. I would also like to know if a space 6-9 feet with a height of 3½ feet will be adequate for growing good herb.

—Wild Child

Greensboro, North Carolina

Yes, fluorescent lights are a good source of light for gardens and can be used to grow nice buds. They are inconvenient to use in most gardens because they are bulky and large banks of them are required to provide adequate light. However, even a well-constructed unit with great reflectors cannot match the intensity that a metal halide (MH) or high-pressure sodium (HPS) lamp emits.

Fluorescents are preferred for some gardening purposes. Growers are becoming interested in the small plant garden. In some cases up to 100 plants are grown per square yard. The rooted cuttings are placed into flowering when they are between 8 and 12 inches tall. They are usually no taller than 2 to 2½ feet when they are harvested. If fluorescent lamps are used, the lights can be hung right over the plants, taking up only a foot of height. If an MH or HPS lamp is used, an additional 5 to 80-foot-high space is required in order to disburse the light over the garden. Plants can be grown on several layers of shelves this way, increasing the total number of square feet in the garden. A 3½-foot high space could be used to grow these small plants using fluorescent lamps.

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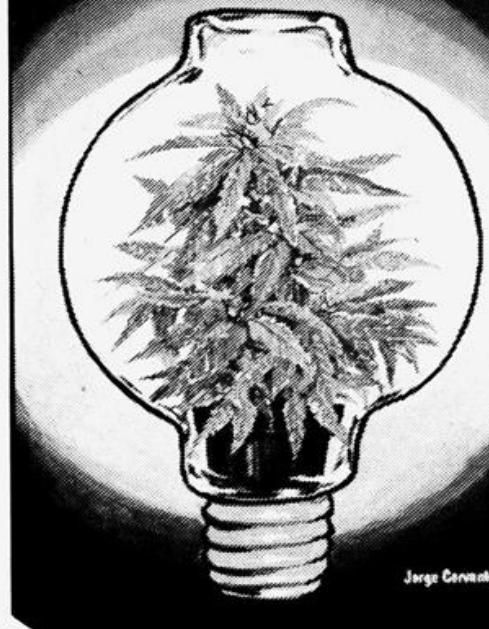
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# A S K E D

continued from previous page

Dear Ed,

I just set up my new farm up in the cellar. It measures 10 by 12 by 6 feet. What should I add to my present 400-watt halide to get the best results—one 1000-watt MH or one 400-watt MH?

—P.J.L.

Oklahoma City, Oklahoma

Your growing area is 120 square feet. A 1000-watt lamp usually covers between 50 and 100 square feet, a 400-watt lamp between 20 and 40 square feet.

Because of the low ceiling, a 1000-watt lamp would not be able to disburse the light very efficiently. Most of the light would be concentrated in a relatively small area of the garden. To provide the garden high intensity light, which promotes fast growth and tight budding, about 100 square feet of the area should be illuminated with four 400-watt lamps. The lights can be placed in stationary positions. The light is reaching the plants from several directions, so very little of them will be in shadow. Even so, some growers prefer light movers.

If a section of the space were set up with shelves and fluorescent lights for clones and early vegetative growth, efficiency could be increased measurably. During rooting and early growth the plants need very little space. Only when they are reaching rapid vegetative growth do they need more room.

Rather than using MH lamps, high-pressure sodium lamps provide more light; some growers claim that they encourage flowering. They can also be used for vegetative growth without MH lamps, with no decrease in growth.

Dear Ed,

I started some plants indoors under fluorescents on January 1. They are now a foot tall and growing fast. When I put them out on the first of March, will they continue to grow in size after flowering begins?

—Bonkers

South Texas

The plants would continue to flower for about a month or so, depending on variety, and then revert to their vegetative state, continuing to grow during the summer. They would flower again in the fall.

For better results, start forcing when they are about two- to two-and-a-half months old, depending on how long the variety takes them to ripen. Place the plants outdoors as soon as the weather permits. Remove all the

flowers at the end of April, then let the plants revert back into vegetative growth.

Dear Ed,

This is in reference to the letter about green light killing plants ("Ask Ed," September, '86).

Green light does not kill plants; however if the only light used is green, the plant will die—not from the exposure, but from lack of useful light. It's just like you said, plants reflect green light. Things are the color they are because of the light they reflect. As a matter of fact, sunlight and most fluorescent lights give off green light.

Now, to my question. I have an indoor garden that is 17 square feet with a maximum growth height of 4 feet. I am using four fluorescent plant grow bulbs. Should I use two cool white bulbs and two plant grow bulbs for best results?

For a source of CO<sub>2</sub> I have two rats in my grow room. Is this sufficient for CO<sub>2</sub> production?

—Wild Child

North Carolina

A combination of two warm and two cool whites would probably help the plants maintain faster growth.

The rats probably use quite a bit of oxygen, but I am stumped as to how much CO<sub>2</sub> they actually produce.

Dear Ed,

I have easy access to some mercury-lamp bulbs. Will they work with any of the grow light systems, or do I need to find a setup specific to mercury lamps?

—John

Rockville, Maryland

Mercury lamps require their own type of ballast and cannot be used with metal halides or high-pressure sodium-vapor lamps.

● I welcome comments, tips and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant, and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, *Marijuana Growers Handbook, Indoor/Greenhouse Edition*.

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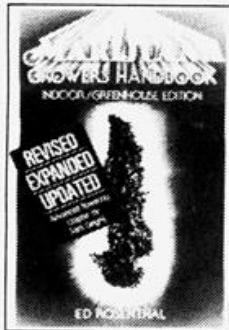
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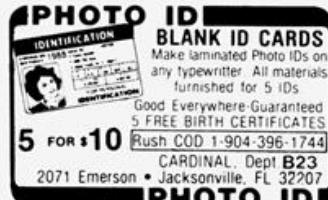
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# CASE IN POINT

## SAVING YOUR CLIENT'S OX: SOME FUNDAMENTAL CONSIDERATIONS AND DEFENSES TO FORFEITURE UNDER 21 U.S.C. 881

by Martin J. Bernholz and G. Nicholas Herman

If an ox gore a man or a woman, that they die: then the ox shall be surely stoned, and his flesh shall not be eaten; but the owner of the ox shall be quit.

Exodus 21:28

**A**ccording to the *Drug Agent's Guide to Forfeiture of Assets*, this biblical allegory is the genesis of modern forfeiture law.<sup>1</sup> Some three thousand years after the ox was forfeited, Congress enacted 21 U.S.C. 881 (1970). This statute subjects to civil forfeiture a plethora of items used in, or associated with, a violation of the laws relating to controlled substances.

Until recently, federal prosecutors have not been very aggressive in seeking forfeitures under 21 U.S.C. 881; however, in the past four years, they have seized drug-related property and cash worth literally millions upon millions. As one trial attorney aptly concluded, "The government lawyers go after these items of property with an almost sexual frenzy."<sup>2</sup> There is no question that this seizure-and-forfeiture fever is spreading.

### 21 U.S.C. 881 IN PERSPECTIVE & SCOPE

The primary significance of 21 U.S.C. 881 lies in its reach. This statute can do what other drug forfeiture statutes cannot, thereby making life much easier for federal prosecutors.

In 1970, at the same time that most of the provisions of Section 881 became effective, Congress resurrected the historically dormant concept of "criminal

forfeiture" by enacting the Racketeer Influenced and Corrupt Organizations Act (RICO),<sup>3</sup> and the Controlled Substances Act, Continuing Criminal Enterprise (CCE).<sup>4</sup> RICO makes a defendant's "interest" in a drug-related "enterprise" forfeitable,<sup>5</sup> while CCE makes "profits" forfeitable.<sup>6</sup> However, for forfeiture purposes, both RICO and CCE are subject to a common impediment from the prosecutors' standpoint: because RICO and CCE are *criminal* statutes, forfeiture of property under them can only be obtained after conviction of the defendant for the substantive drug offense, and upon proof "beyond a reasonable doubt" that the forfeitable property is appropriately connected with or traceable to the offense.

Nothing of the sort exists with respect to 21 U.S.C. 881. That section provides for a **civil (in rem)** cause of action rather than a **criminal (in personam)** proceeding. The "civil" label makes all the difference. Under Section 881, the government may prevail in its forfeiture action "once it is established that there is probable cause to believe the property was involved in criminal wrongdoing."<sup>7</sup> The requisite "probable cause" has been defined as a "reasonable ground for belief of guilt, supported by less than **prima facie** ["at first view"] proof but more than mere suspicion."<sup>8</sup> The burden of proof then shifts to the claimant of the property to show by "a preponderance of the evidence" that the property was not used in or associated with a violation of the law.<sup>9</sup> Thus, given the rather "toothless" burden of proof on the government to secure an 881 forfeiture, along with the purely *in rem* nature of such a proceeding, it is apparent why federal prosecutors now particularly favor forfeiture under that section instead of under RICO or CCE: there is much less to do.

Apart from the burden-of-proof aspect, Section 881 makes subject to forfeiture items of property that reach far beyond what can be confiscated under either RICO or CCE. For example, in 1970 the laundry list in Sections 881(a)(1)-(5) made forfeitable raw materials, products, equipment, containers, conveyances, aircraft, vehicles, vessels, books, records, research, formulas, microfilm, tapes, and data associated with illicit drug activity. Effective November 10, 1978, Congress enacted an additional, catch-all provision under Section 881(a)(6) that arguably extends to every other type of property that could conceivably be related to a violation of the drug laws:

All moneys, negotiable instruments, securities, or other things of value furnished or intended to be furnished by any person in exchange for a controlled substance . . . all proceeds traceable to such an exchange, and all moneys, negotiable instruments, and securities used or intended to be used to facilitate any violation . . .

Thus, relative to the criminal forfeiture provisions of RICO and CCE, 21 U.S.C. 881 is a prosecutor's panacea and a defense lawyer's piranha.

### GOVERNMENT STRATEGY

Given the salient prosecutorial advantages of Section 881, if the government is proceeding for forfeiture under that statute alone, it is likely that the defendant is being told something that is strategically significant. While it may be folly to ruminante upon the motives of prosecutors, it would seem somewhat obtuse that the government would bring an action exclusively under 881 when it could RICO or CCE the defendant and thus be credited with both putting him away in personam as well as forfeiting his ill-gotten gains to the federal coffers. Thus, the possible motive for utilizing an 881 action might be to "surface" the suspect with the aim that, if he contests the civil forfeiture, the government may acquire the other evidence it needs to convict him of a substantive drug offense and secure criminal forfeiture of additional property.

This should be a serious consideration because, as pointed out above, once the government has established "probable cause" for forfeiture, the burden of proof shifts to the defendant to establish "a preponderance of the evidence" that the property in question was *not* used in or associated with criminal wrongdoing. If the defendant's property is culpable, there is a threshold decision that he must make as to whether to "surface" by defending the action at all. If the decision to defend is made, the question then becomes whether to put on any evidence, and if so, how much.

*continued on page 88*

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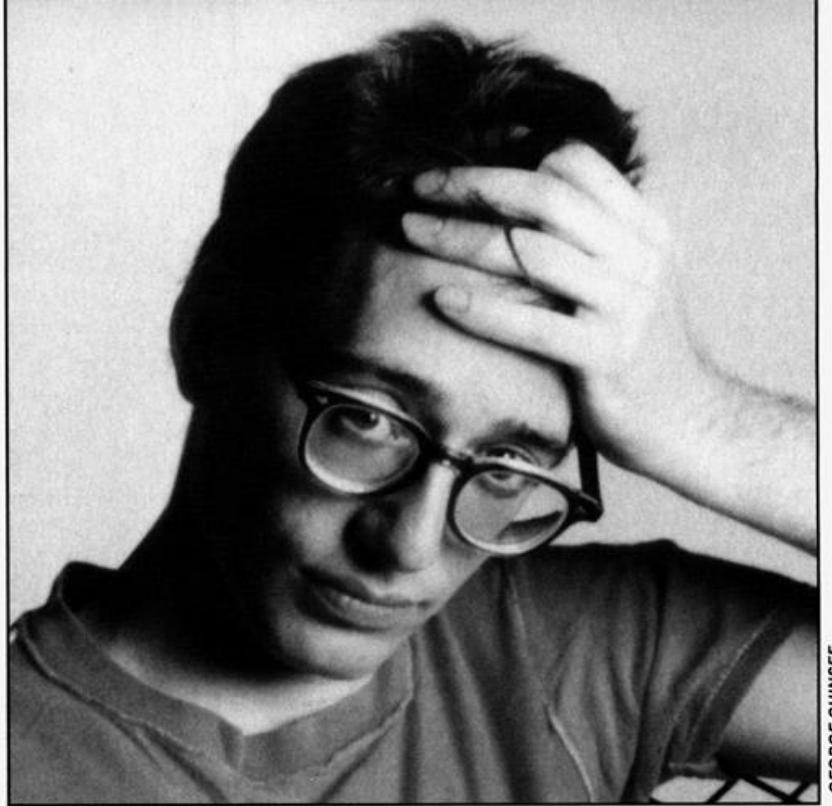
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# HIGH FIVES



GEORGE CHINSEE

## JOHN LELAND

Alternative Record Charts

1. Few things are more obvious. After Hugo Montenegro and Peggy Lee, the most important figure in the development of this corporate youthsplotiation scam we call rock and roll is **Ennio Morricone**. From his early days in the Ennio and Tina Turner Revue, and his classic *Sun* sessions (Sam Phillips: "If I can find an Italian man with a black sound, I'll make a million"), he's been a major influence on every guy who ever wore hair tonic and tried to get a Catholic girl to put out.

After kicking his drug habit and finding comfort in God, the unacknowledged inventor of rock and roll turned to film scores, where he has become the kind of *uber-hack* to which hacks of all professions can look up and gush forth praise. Hackneyed praise, of course.

Morricone won a Nobel Prize for his score for **The Good, the Bad and the Ugly**, a documentary about the three kinds of American tourists, and was granted a personal audience with philanthropist Idi Amin Dada, an admirer of his score for **Once Upon a Time in the West**.

But the highest tribute to Morricone—after his own twangy recordings—is **John Zorn's The Big Gundown** (*Nonesuch*), an arty improvisational reading of the great man's scores. Forget schlock. Forget metaschlock. This cuts through the reverence and references to establish its own breathing pattern of noise and calm. **Sturm and drang**, I think they call 'em. And if Zorn fails to articulate the mythic redolence of Morri-

cone's themes, that just reminds you to judge this as a Zorn record. On which terms it kicks ass. Even your proto-exec little brother could listen to a whole side without denouncing it as antimusical pos-thippie nostalgia. And that still counts for something.

2. There are other ways to make music, but the incredible volume and quality of **Adrian Sherwood's** output speak definitively for his method. The white, English producer works with an umbrella group of black musicians, recording them individually or in small groups, whenever they come through town. He then mixes and matches tracks to put out records on his own *On-U Sound* label under a bunch of artist names: Singers & Players, New Age Steppers, Creation Rebel, Tack-head, Fats Comet, Gary Clail, Mark Stewart, and others. Sometimes a melody appears on several records, and Sherwood overrides all of them with his kinetic mixing style.

Latest tale from the *On-U* crypt is **Off the Beaten Track by African Head Charge**. It's an industrial art-rocker's take on dub: loud, abrasive, but also bottomless. The sort of synthesis that Public Image hinted at on *Second Edition*, but taken further in both its dub-wise and punky extremes. Like all of Sherwood's work, it's politically informed, and for that reason menacing. A soundtrack for our continuing postindustrial catastrophe.

3. An even less subtle symptom of decay is **The Unacceptable Face of Freedom** by **Test Dept.** (*Ministry of Power & Some Bizzare*), a high-volume portrait

of sadness and beauty created on pieces of garbage and obsolete household machines in the dank London town of Deptford. Einsturzende Neubauten useta do it louder, but settle for inarticulate rage.

**Test Dept.** does it with real songs and a thoughtfully shaped dialogue. Thatcher and Reagan make it hard for rock bands to be original without resorting to camp or helplessly chasing their own tail in a circle of self-reference. **Test Dept.** has made it, and made it radical to boot.

4. **The Three Johns, Live in Chicago** (*Last Time Round*). Yes, there are three of them, and they are named John. Yes, they recorded this live in Chicago. And yes, songs like "The Day Industry Decided to Stop" and "English White Boy Engineer" define the sound of pop music anticipating the apocalypse. And even if they're probably jumping the gun on the big A, ya gotta listen. 'Specially if they can write tunes like these.

5. **Ladysmith Black Mambazo, Inala** (*Shanachie*). **Joseph Shabalala** and his incredible dancing Zulu gospel choir prove that there is life after and beyond Paul Simon's touristic observations. A capella life, no less.

### HIGH 5S INFO:

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## PSYCHOTRONIC

As we approach the 1990's and things in general continue to devolve and mutate at an accelerated pace, one minor, but noticeable change has been in film critics. DAVID CRONENBERG's remake/remodel of **THE FIZZ** was one of '86's biggest commercial and critical successes. Most reviewers hated his six other great biological-gross out, science-gone-wrong horror movies. His next film will be **TININS**. His first two, **THEY CAME FROM WITHIN** ('75) and **RABID** ('77, the one with Marilyn Chambers), are the most disturbing, both dealing with pre-AIDS sexually-transmitted death. **THE BROOD** ('79) was his warped look at a broken marriage and child custody. **SCANNERS** ('81), with exploding heads, and **VIDEODROME** ('82), with James Woods pulling a revolver out of his stomach, were followed by **DEAD ZONE** ('83), the best Stephen King adaptation since *The Shining*. They're all available on video now.

Another director to keep watching is Chicago's **STUART GORDON**. He's already disarmed even the most jaded gore fans with **RE-ANIMATOR** and **FROM BEYOND**, the first movies based on H.P. LOVECRAFT stories that don't chicken out. Stuart, who founded and directed Chicago's Organic Theatre, follows those with **DOZIS** and **ROBO-JOK**.

**HOWARD THE DUCK** wasn't quite as bad as you might have heard. It was set, but not filmed, in Cleveland, also the setting for Paul Shrader's **THE LIGHT OF DAY**, with Michael J. Fox and Joan Jett. **LIGHT** is about a struggling Cleveland band. I was in several, so I can't wait. The future home of the Rock and Roll Hall of Fame might also be the site of the **SUPERMAN** museum (!). (If they're going to continue making Superman movies, I wish they'd make one about the **BIZARRO** world.) Cleveland's new ambassador to the rest of this world is *American Splendor* comic-book writer **HARVEY PECAR**, who recently managed to take over the "Late Night" show and leave David Letterman speechless.

Good luck to two of the late '60s/early '70s' most exciting and original rockers, **ACE COOPER** and **IGGY POP**. Both of the on-the-edge Detroit-born madmen are back after years of semiretirement, drug and/or alcohol problems, and bad albums. His music was never in the same league, but speaking of crazed Detroit rockers, **TED NUGENT** (who never really went away) was unfortunately turned down recently when he offered to pay ten million to buy the **MUZZAK COMPANY** in order to "remove it from the face of the earth so that **AMERICA** would be a better place to live for one and all . . . (!!!).

—MICHAEL J. WELDON, author of *The PSYCHOTRONIC ENCYCLOPEDIA OF FILM* (Ballantine).

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# ALTERNATIVES

## by Jim Poling

### THE CALIFORNIA REICH (Paramount Home Video)

Free of sensationalism and insistent rhetoric, this Oscar-nominated documentary on the National Socialist White People's Party captures a very worried, very troubled, and very determined sect in California (the NSWPP has members nationwide) who idolize Hitler, frost licorice swastikas on party cakes, and refuse to believe that any Jews were exterminated during WWII, although one fellow wishes it were true, adding, "I'd go to Auschwitz tomorrow and roll around in the dirt. I guess I'm old-fashioned." The subjects in this film study aren't heel-clicking storm-troopers and there isn't an SS she-wolf in the bunch—these are grandparents, postal clerks, truck drivers, and suburban mothers. One of the youngest members interviewed is only five years old, but his vocabulary already includes "nigger," "Jew," "hate," and "kill." There's almost a black comedy in this absurd realism, but our belief that the NSWPP represents nothing more than a laughable minority is qualified by the film's sobering postscript: "The Federal Officers estimate the strength of [Hitler's] forces at not over 1000 and describe them as persons better fitted for the comic opera stage than for a serious effort to overthrow the government." That *New York Times* editorial was written in 1923.

### PAUL BOWLES IN MOROCCO (Mystic Fire Video)

Paul Bowles is a writer whose partly unconscious manipulation of his own "myth" has created a cult following that stirs up the kind of eager and awestruck enthusiasm usually reserved for either dead or unapproachable legends. In 1970, filmmaker Gary Conklin traveled to Tangier, Morocco, where the American expatriate Bowles has been living since the '40s. A soundtrack of native Berber-African rhythms accompanies Bowles (who seems as amused with himself as we are) through crowded street markets, fire dancing, snake charmers, and possessive religious rituals. Filmmaker and subject give us the kind of exotica we'd expect, although the unpredictable tales that Bowles relates can startle: the mystifying reintegration that overcame him in the Moroccan desert, the villager who transforms himself into a goat, and the story of a sky filled with condoms. Bowles never pretends not to realize or understand that his appeal to the generations



who have followed his work has turned him into living, comic surrealism. If Bowles is convinced that a man can become a goat, who are we not to believe him?

**PAUL BOWLES IN MOROCCO** only gives us enough to feed our fascination in him and his friends—enough to keep his myth alive. Also recommended: Sara Driver's adaptation of Bowles' **YOU ARE NOT I** (*New Video*), about a runaway mental patient. Her moody, expressive film style is good enough not to overwhelm Bowles' spirit.

### THE CONNECTION (Mystic Fire Video)

When Shirley Clarke's **THE CONNECTION** opened in New York over twenty years ago, it was withdrawn after a two-day run due to censorship problems. After two decades it still hasn't lost much of its daring. The single-room set is occupied by a group of junkies who fight, joke, pace, wretch, and drift off to the dreamy sounds of Freddie Redd's jazz quartet, which happens to be hanging around waiting for their "connection." In the midst of all this squalor is an arty documentary filmmaker who sets up his camera hoping to film "the realities of drug addiction," and who, after being chided for his naivete and "squareness," shoots heroin for the first time and only manages to become sick. The performances of the actors/addicts are more convincing when they let go of the theatrics of their characters (there's a talkative junkie, a psycho junkie, a homosexual junkie, a philosophical junkie, etc.). While **THE CONNECTION**'s pretensions to be realistically gory are occasionally arch, Shirley Clarke's intentions as a director are raw and worthy. ●

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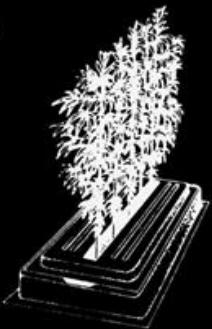
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C A S E

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On the other hand, if the property the government seeks to forfeit is *not* tainted and the defendant will testify along with other appropriate witnesses to that effect, the claimant may represent himself as an "innocent owner." Section 881(a)(4), as applied to "conveyances," and Section 881(a)(6), as applied to "moneys, negotiable instruments, securities, other things of value [and] proceeds," expressly provide for this. In proving innocent ownership, it must be shown that it is "reasonable to believe" that "the property subjected to forfeiture had been taken from him without his privity or consent... [or] that he was uninvolved in and unaware of the wrongful activity, [and] had done all that reasonably could be expected to prevent the proscribed use of his property."<sup>10</sup>

If this "innocent owner" approach is applicable to the claimant, he should prevail. The more difficult job exists where the property the government seeks to forfeit under Section 881 is in fact culpable, and the government is using this type of action not only to forfeit the property, but also to flush out the suspect for criminal prosecution.

## SEIZABLE AND FORFEITABLE PROPERTIES

The claimant may be well advised to drop the matter to avoid self-incrimination (thus guaranteeing forfeiture by default). The starting point is to determine whether the property in question is properly "subject to forfeiture." Under Section 881(a)(1)-(5), the property must be a "controlled substance," "raw material," "product," "equipment," "container," "conveyance," "book," "record," or item of "research."

If the property does not fit into any of these categories, then look at Section 881(a)(6). This perplexing provision makes forfeitable "moneys, negotiable instruments, securities, or other things of value" and "all proceeds traceable [to an exchange of controlled substances]." To date, there are thousands of cases that have dealt with actions brought under that subparagraph. None of them, however, have attempted to define "proceeds."

Ironically, the most complete discussion of the meaning of "proceeds" is con-



tained in **DEA Legal Comment No. 17** (November 20, 1978). There, "proceeds" is defined as

whatever is received when an object is sold, exchanged, or otherwise disposed of. The most important point about the term "proceeds" is that it includes the ultimate product of an exchange even if the product changes form. Proceeds applies not only to property received immediately from an exchange, called "direct proceeds," but also to property subsequently acquired through the sale, exchange, or disposition of the direct proceeds. In other words, proceeds of proceeds are considered proceeds.<sup>11</sup>

To illustrate, suppose that X pays someone \$100,000 cash for a quantity of controlled substance. The supplier then opens a bank account with the money. He later withdraws the funds from the account and buys a beach house. The \$100,000 in cash, the bank account, or the beach house are seizable and forfeitable proceeds under Section 881(a)(6) when in the hands of that person. "Proceeds," therefore, may embrace just about every type of property, whether or not specifically listed in Section 881(a)(1)-(6).

Again, according to **DEA Legal Comment No. 17**, "money or property loses its status as proceeds if it is transferred to a Bona Fide Purchaser (BFP)."<sup>12</sup> A BFP is a "purchaser in good faith for valuable consideration and without notice."<sup>13</sup> For example, if X purchases a beach house with \$100,000 of forfeitable proceeds, the seller of the property is a BFP if he had no knowledge that the monies were proceeds of an illegal drug exchange. Thus, proceeds that have been transferred to a BFP are not seizable and forfeitable under Section 881(a)(6).

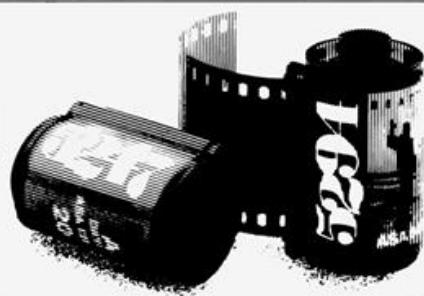
## PROCEDURE & PROCESS

When the government is using 21 U.S.C. 881 in a "flushing" expedition, the most effective defense tactic is to attack the action on its face, and for the defendant to keep away from the courtroom. This approach necessitates a basic understanding of Section 881 procedure and process, which is pointedly peculiar.

Section 881(b) begins the confusion by providing that "any property subject to forfeiture under [Section 881(a)] may be seized by the Attorney General upon process issued pursuant to the **Supplemental Rules for Certain Admiralty and Maritime Claims....**" Rule A of the Sup-

continued on page 93

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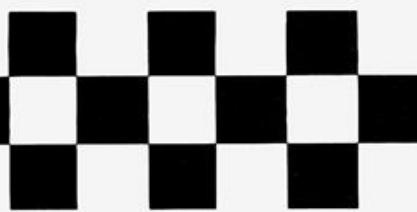


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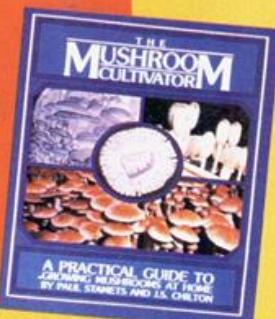
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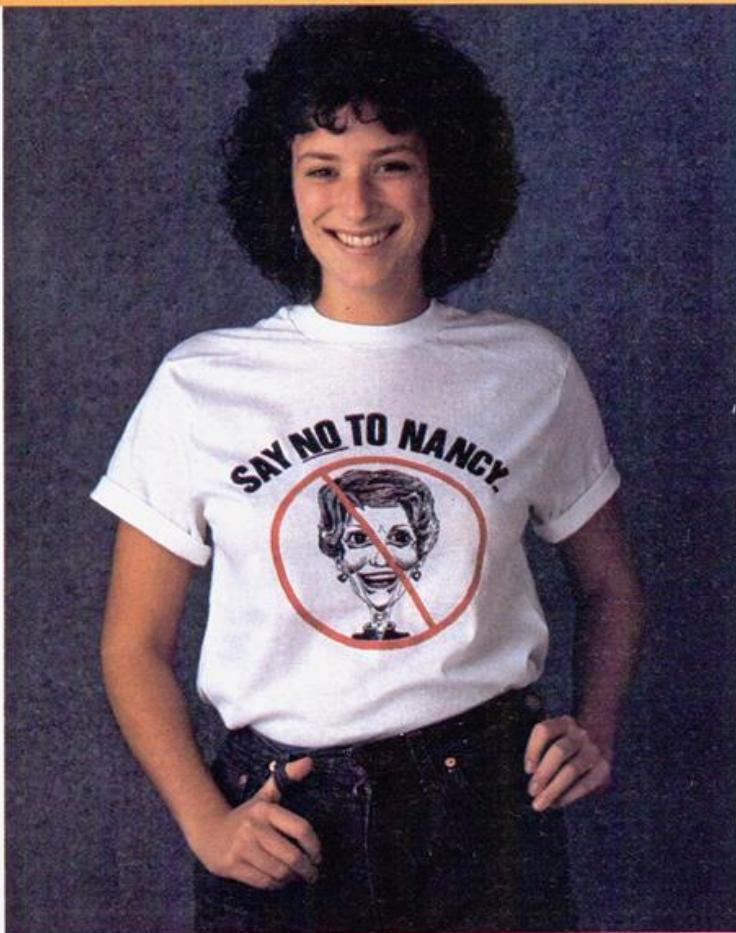
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plemental Rules provides that they are subject to "actions in rem" and that "the general Rules of Civil Procedure for the United States District Courts are also applicable [to in rem actions] except to the extent that they are inconsistent with [the] Supplemental Rules." Thus, tracking the Supplemental Rules along with pertinent portions of Section 881, government procedure for seizing property must, in most circumstances, comply with the following.

First, the government must file a complaint (traditionally called a "libel") against the property in question. That complaint must be "verified on oath or solemn affirmation" (usually by the USA). The complaint must "describe with reasonable particularity the property that is the subject of the action and state that it is within the [federal court] district or will be during the pendency of the action." In addition, the complaint must state "the place of seizure and whether it was on land or on navigable waters."<sup>14</sup>

Second, "upon the filing of the complaint the clerk [of the applicable district court] shall forthwith issue a warrant for the arrest of the... property that is the subject of the action and deliver it to the marshall for service. If the property that is the subject of the action consists in whole or in part of... proceeds of property, the clerk shall issue a summons directing any person having control of the funds to show cause why they should not be paid into court to abide the judgment."<sup>15</sup>

Third, "process in rem... shall be served only within the district" where the property is found.<sup>16</sup> However, "when it appears that the defendant cannot be found within the district... if tangible property is to be arrested, the marshall shall take it into his possession for safe custody. If the character or situation of the property is such that the taking of actual possession is impracticable, the marshall shall execute the process by affixing a copy thereof to the property in a conspicuous place and by leaving a copy of the complaint and process with the person having possession or his agent."<sup>17</sup> "If intangible property is to be arrested the marshall shall execute the process by leaving with the... obligor a copy of the complaint and process...."<sup>18</sup>

In attacking any defect in the govern-

ment's procedure or process, it should be remembered that, with the exception of "subject matter jurisdiction," you will waive any F.R.C.P. 12(b) defenses that are not raised by motion prior to answering the complaint or in your answer. Based on the foregoing discussion of the Supplemental Rules, the following is a rough checklist of ten major objections not to miss:

- 8. The marshall did not take the property into his possession (when the property is tangible).
- 9. The marshall did not affix a copy of the arrest warrant ("process") to the property and/or did not leave a copy of the complaint with the person having possession of the property or his agent (when the property is tangible and immovable).
- 10. The marshall did not leave a copy of the complaint and/or a copy of the arrest warrant with the obligor (when the property is intangible and the action is brought under Section 881(a)(6)).

You should note that a more detailed objection may have to be raised if an overzealous agent of the government obtained the property by larceny or through other wrongful means and brought it into the district to invoke the court's jurisdiction. As mentioned above, under Supplemental Rule (C)(2), "[t]o establish in rem jurisdiction in admiralty the res [property] must be present in the district when the suit is filed or during the pendency of the action."<sup>19</sup>

In construing this jurisdictional requisite under Supplemental Rule C(2), the court in *Plataro Ltd., Inc. v. Unidentified Remains of a Vessel*, 508 F.2d 1113, 1116 (5th Cir. 1975) reiterated the position taken by other courts that where in rem jurisdiction has been established by the presence of the res within the appropriate district, such jurisdiction is not destroyed "where the res is... fraudulently, or improperly removed from the district."<sup>20</sup> Since the federal courts clearly will not permit in rem jurisdiction to be destroyed by the fraudulent or improper removal of the res from a district, *ipso jure* ("in the present situation"), a court should not permit in rem jurisdiction to be created by the fraudulent or improper introduction of the res into a district. Moreover, both the federal courts and state courts have consistently declined to accept jurisdiction (whether over the subject matter or in personam) where such jurisdiction has been procured by the fraudulent or improper acts of a party.<sup>21</sup>

Thus, whenever jurisdiction under Section 881 is effected solely by the unlawful acts of one acting at the express behest or under color of governmental authority, the action should be dismissed. A contrary ruling would squarely place the court in the position of condoning criminal activity.

*continued over*

## Because the 21 U.S.C. 881 case law is scant, attorneys are blessed with both bewilderment and a creative opportunity.

- 1. The complaint was not verified.
- 2. The complaint failed to describe the forfeitable property with reasonable particularity.
- 3. The complaint did not allege that the property was in the court's district or would be during the pendency of the action.
- 4. The complaint did not allege where the property was seized.
- 5. No warrant was issued for the arrest of the property.
- 6. No summons was issued directing any person having control of the property to show cause why the property should not be paid into court to abide the judgment (when the property is intangible and the action is brought under Section 881(a)(6)).
- 7. Process was not served within the district.

**RULE 12(b)(6)  
DEFENSES**

Civil defense attorneys, by legal reflex, automatically call first upon a F.R.C.P. 12(b)(6) motion to dismiss for failure to state a claim upon which relief can be granted. This defense may also be used against a civil forfeiture action under Section 881.

If the government is bent on using Section 881 to "surface" the defendant, you should not be surprised to read a complaint that is styled in purely conclusory language. In the absence of hard facts in the complaint, there is a good argument to dismiss the action under F.R.C.P. 12(b)(6).

Rule E(1) of the *Supplemental Rules* pertinently states that "except as otherwise provided, this rule applies to... actions in rem... supplementing Rule... C...." Rule E(2)(a) of the *Supplemental Rules* states that "in actions to which this rule is applicable the complaint shall state the circumstances from which the claim arises with such particularity that the... claimant will be able, without moving for a more definite statement, to commence an investigation of the facts and to frame a responsive pleading."

In construing Supplemental Rule E(2)(a), Wright & Miller say that it "... requires a more particularized complaint than is demanded in civil actions generally...."<sup>22</sup> Wright & Miller go on to say that "apparently this is thought appropriate because of the *drastic* nature of those remedies [such as Supplemental Rule C]."<sup>23</sup> Thus, it is clear from the facial language of Supplemental Rule E(2)(a), along with the premier treatise that has confirmed its meaning and articulated its rationale, that it requires a more particularized standard of pleading in actions for forfeiture in rem than is otherwise required for civil actions generally under F.R.C.P. 8(a).

Even if the court considers the allegations of the complaint as true and in a light most favorable to the government in passing upon your 12(b)(6) motion, the court cannot accept as true any mere "legal conclusion." As stated by the court in *Jewell v. City of Covington, Ga.*, "general conclusionary allegations unsupported by facts are insufficient to constitute a cause of action."<sup>24</sup> Moreover, because the express import of Supplemental Rule E(2)(a) is to compel the government to furnish a complaint that alleges facts with sufficient particularity to obviate the need for any claimant to move for a more definite statement (under F.R.C.P. 12[e]), the procedural requirement and rationale of Supplemental Rule E(2)(a) would be made a nullity if the

court gave the government leave to supply a more definite statement.

Finally, in scrutinizing the complaint for forfeiture in rem, close attention should be given to those allegations that refer to the date(s) of any transactions relating or giving rise to the property. This is important because, under the right circumstances, you may be able to effect a binding F.R.C.P. 12(b)(6) dismissal of the government's "libel" under the **ex post facto** ["*after the fact*"] clause.<sup>25</sup> That clause prohibits Congress and the states from enacting any law "which imposes a punishment for an act which was not punishable at the time it was committed."<sup>26</sup>

As mentioned above, while most of the provisions under Section 881 became effective in 1970, Section 881(a)(6) was added later, becoming effective on November 10, 1978. Thus, if the government's complaint seeks forfeiture of property under Section 881(a)(6) on the sole basis of transactions that are alleged to have occurred prior to November 10, 1978, the defendant has a winning *ex post facto* argument. The propriety of this defense was expressly established in *U.S. v. Lot No. 50 As Shown on Map of Kingsbury*, 557 F. Supp. 72, 73 (D. Nev. 1982).

**CONCLUSION**

It should be apparent that the issues and particular circumstances that may arise from a 21 U.S.C. 881 case are nearly innumerable. Since in many areas the case law is scant, attorneys handling such cases are and will be blessed with both inevitable bewilderment and an opportunity to be creative in their representations.

As is true with much criminal defense work, the basic defense theme to a Section 881 action is to keep the defendant out of the limelight. In the meantime, the trial attorney must be hacking away at the government's procedure, process, pleadings, and the like. If he is fortunate to have some good defenses, and the right blend of persistence, patience, and peradventure, he just might save his client's property altogether. Our experience has been, however, that if the government is seeking to forfeit the client's ox, be assured that it will not be long before it will attempt to get a very personal part of his anatomy as well. If this occurs, the attorney will be back in the old in personam mode that he is used to, and ready to do battle.

**NOTES:**

1. Harry L. Myers and Joseph P. Brzostowski, *DEA Publication*, 1st ed. (Wash., D.C. 1981), p. 2.
2. Carla DeDominicis, "Prosecutors Pounce on Drug Traffickers' Assets," *The California Lawyer* (April 1982), p. 30 (quoting Eugene G. Iredale, Chief Trial Attorney for the Federal Public Defenders of San Diego, Inc.).

3. 18 U.S.C. 1962, 1963.
4. 21 U.S.C. 848.
5. 18 U.S.C. 1963(a).
6. 21 U.S.C. 848(a)(2).
7. *U.S. v. \$83,320.00 in United States Currency*, 682 F.2d 573, 577 (6th Cir. 1982).
8. *U.S. v. \$22,287.00 in United States Currency*, 520 F.Supp. 675, 678 (E.D. Mich. 1981); *U.S. v. One 1978 Chevrolet Impala*, 614 F.2d 983 (5th Cir. 1980); *U.S. v. One 1975 Ford Pickup Truck*, 558 F.2d 755 (5th Cir. 1977).
9. *U.S. v. One 1975 Mercedes* 280s, 590 F.2d 196, 199 (6th Cir. 1978); *U.S. v. One 1975 Chevrolet*, 495 F.Supp. 737, 740 (W.D. Mich. 1980); *U.S. v. \$22,287.00 in United States Currency*, 520 F.Supp. 675, 678 (E.D. Mich. 1981).
10. *U.S. v. \$4,255,625.39*, 551 F.Supp. 314, 323 (S.D. Fla. 1982); *U.S. v. One 1978 Chrysler LeBaron*, 531 F.Supp. 32, 34 (E.D. N.Y. 1981).
11. *DEA Legal Comment No. 17* (November 20, 1978), pp. 3-4.
12. *Ibid.*, p. 6.
13. *Black's Law Dictionary*, 4th ed. (1951), p. 224.
14. Supplemental Rule C(2); 21 U.S.C. 881(b).
15. Supplemental Rule C(3).
16. Supplemental Rule E(3)(a).
17. Supplemental Rule E(4)(a), (b).
18. Supplemental Rule E(4)(c).
19. *Plataro Ltd., Inc. v. Unidentified Remains of a Vessel*, 508 F.2d 1113, 1115 (5th Cir. 1975); *Treasure Salvors, Inc. v. unidentified Wrecked and Abandoned Sailing Vessel*, 569 F.2d 330 (4th Cir. 1978).
20. See also, *The Rio Grande*, 90 U.S. (23 Wall.) 458, 23 L.Ed. 158 (1874); *American Bank of Wage Claims v. Registry of District Court*, 431 F.2d 1215 (9th Cir. 1970); *Martin v. The Budd*, 172 F.2d 295 (9th Cir. 1949).
21. See, e.g., 28 U.S.C. Section 1339 (prohibiting jurisdiction of the district courts in civil actions upon improper or collusive joinder by parties); *Ruggieri v. General Well Service, Inc.* 535 F.Supp. 525, 530 (D. Colo. 1982) (declaring jurisdiction should be declined where a defendant is unfairly enticed into a state and then served with process); *Sawyer v. LaFlamme*, 123 Vt. 229, 185 A.2d 466, 467 (1962) (declaring "a court will refuse to exercise its jurisdiction in favor of a party that has used unlawful means to obtain service"); *Emert v. Groomer*, 131 Okla. 58, 268 P. 204, 205 (1980) (declaring that "we are unwilling to lay down the rule that officers of the law, by strong arm methods, may make their unlawful acts the basis for seizure of property to support court jurisdiction").
22. Wright & Miller, *Federal Practice and Procedure: Civil*, Section 3242, p. 287. See also, Section 1227, p. 165.
23. *Ibid.*, Section 3242, p. 287.
24. *Jewell v. City of Covington, Ga.*, 425 F.2d 459, 460 (5th Cir. 1970), cert denied, 400 U.S. 929 (1970). See also, Wright & Miller, Section 1357, pp. 595-596.
25. United States Constitution (Article 1, Section 9, Clause 3).
26. *Weaver v. Graham*, 450 U.S. 24, 29, 101 S.Ct. 960, 964 (1981); *Cummings v. Missouri*, 4 Wall. 277, 321-325, 18 L.Ed. 356 (1867).

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THESE ARE NOT VIDEOTAPES SPLICED TOGETHER with a hodge-podge of incomplete bits & pieces. These are complete 90 minute stories from start to finish. Each is separate and individually packaged. WE CERTIFY THAT NO MATTER WHAT THE GOVERNMENT MAKES US DO TO CENSOR THEM PRIOR TO DISTRIBUTION, WHAT YOU GET WILL BE THE ORIGINAL UNCUT SCRIPT AS IT WAS MEANT TO BE ENJOYED.

HOW CAN WE MAKE THIS OFFER AT THIS PRICE? It's simple—for 2 reasons. First, we're betting that the excitement generated by this campaign will pay off later—with huge box-office receipts and runaway video sales. Secondly, we're able to keep our processing costs down by requiring that you order either a set of 6(at \$3.95 each) for only \$23.70, a set of 12(at \$3.95 each) for only \$47.40, or all 20 selections(at \$3.95 each) for only \$79, which entitles you to A FABULOUS FREE GIFT: A \$99.00 VIDEOTAPE SPECTACULAR, READ DETAILS!!!

BUT THERE IS A CATCH—All we ask in return for making this adult entertainment available to you is that you fill out & return the questionnaire you'll be receiving with your order. (It needn't be signed.) Your responses to our questions will be a tremendous help to us in producing X-rated pictures the public will want. In fact, your response is the whole aim of this campaign. The more selections you review the more valuable your input becomes. Therefore, to encourage you to review as many selections as possible, we are going to offer an additional bonus.

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# TOP 40

THIS MONTH!	LAST MONTH...	THIS MONTH!	LAST MONTH...	THIS MONTH!	LAST Month...	THIS MONTH!	LAST MONTH...
1 DUMP REAGAN THE READERS HAVE SPOKEN!	- 11	\$MONEY\$	12	AFRICA	- 21	CHRISTMAS	- 31
2 SEX	1 12	SINSE/POT/REEFER	2 13	THE UNIVERSITY OF ARIZONA	5 22	THE FIRST DAY ON RELEASE FROM PRISON (EVERYTHING LOOKS AND SMELLS SO NEW!)	32
3 Grateful Dead	2 13	GETTIN' HIGH	3 14	MY PET CHICKEN	23	PIZZA w/SHROOMS	8
4 BIG, FAT, JUICY, GREEN, KILLER, HOMEGROWN BUDS	4 14	WEEKENDS (ESP. THE SEVEN DAY KIND)	15	GORGEOUS GUYS	24	The TWILIGHT ZONE	-
5 BEER (ESP. FOSTER'S, BUD, MEISTER BRAU, + GENESSEE)	4 15	Led Zeppelin	6 16	WHIPPETS (NCO2)	25	Afghan Hash	-
6 HENDRIX ELECTRIC AXE GOD!	6 16	LAVA LAMPS	7 17	METALLICA	26	SOUTH PADRE ISLAND	-
7 LSD	7 17	THE YOUNG ONES FUNNIEST SHOW ON MTV!	10 18	THE DENVER BRONCOS	27	SPANNING	-
8 Pink Floyd	10 18	MOTORCYCLES ESPECIALLY HARLEYS	9 19	ORANGE CRUSH "D"	28	JOAN WOLF OF PLEASANTON, CALIFORNIA VA VA VOOM!	-
9 BONG HITS OO + BONGS	9 19	SPEED	11 20	COMPACT DISCS	29	KICKING ANY KIND OF BABY ANIMAL (NASTY RESPONSE TO RECENT WIMPY VOTE OF THE MONTH)	-
10 FRIENDS (BECAUSE YOU GET HIGH WITH A LITTLE HELP FROM THEM)	10 20	FISHING	11 28	LIFE	30	RONALD REAGAN (SOME PEOPLE STILL LIKE HIM!)	-
VOTE FOR ANYTHING! CHOICES NOT RESTRICTED TO LIST.							

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#1

#2

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2<sup>4</sup>/<sub>40</sub> — 500 ml  
1 — 2 Neck Boiling Flask  
10<sup>30</sup> / 2<sup>4</sup>/<sub>40</sub> — 300 ml  
1 — Single Neck Boiling  
Flask 2<sup>4</sup>/<sub>40</sub> — 50 ml  
1 — Single Neck Boiling  
Flask 2<sup>4</sup>/<sub>40</sub> — 100 ml  
1 — Single Neck Boiling  
Flask 2<sup>4</sup>/<sub>40</sub> — 200 ml

1 — 125 ml Separatory  
Funnel W/4 mm Stop Clock  
1 — 300 mm West  
Condenser 2<sup>4</sup>/<sub>40</sub> Ground  
Joints  
2 — 300 mm Allihn  
Condensers 2<sup>4</sup>/<sub>40</sub> Ground  
Joints  
1 — 300 mm Liebig  
Condenser 2<sup>4</sup>/<sub>40</sub> Ground  
Joints  
1 — Adapter 75° 3-Way

1 — Adapter 105° Angle,  
W/Vacuum Connection  
1 — Adapter 90° Angle to  
Hose Connection  
1 — Adapter Bushing,  
Thermometer 10<sup>30</sup> / 2<sup>4</sup>/<sub>40</sub>  
1 — Thermometer — 10° to  
360°C 1<sup>30</sup> / 2<sup>4</sup>/<sub>40</sub> Ground Joint  
1 — Stopper 2<sup>4</sup>/<sub>40</sub>

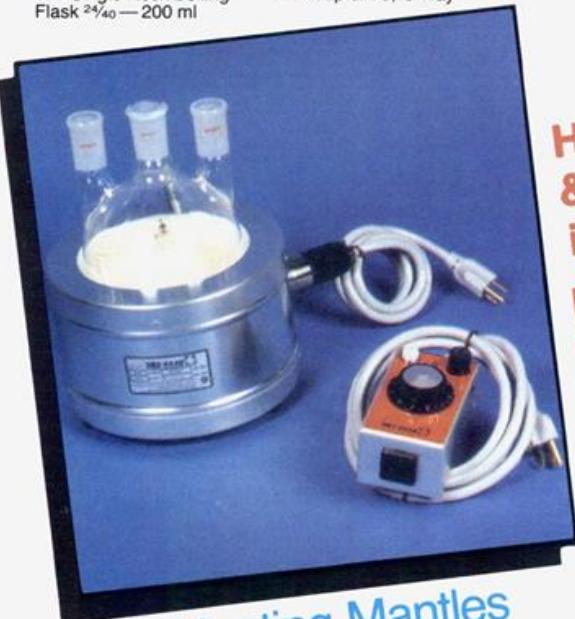
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1 — 250 ml Separatory  
Funnel W/4 mm Stop Clock  
1 — 150 ml Buchner Funnel  
W/Vacuum  
2 — 300 mm Allihn  
Condensers 2<sup>4</sup>/<sub>40</sub> Ground  
Joints  
1 — 300 mm West  
Condenser 2<sup>4</sup>/<sub>40</sub> Ground  
Joints  
1 — 300 mm Liebig  
Condenser 2<sup>4</sup>/<sub>40</sub> Ground  
Joints

1 — Adapter 75° 3-Way  
1 — Adapter 105° Angle,  
W/Vacuum Connection  
1 — Adapter 90° Angle to  
Hose Connection  
1 — Adapter Bushing,  
Thermometer 10<sup>30</sup> / 2<sup>4</sup>/<sub>40</sub>  
1 — Thermometer — 10° to  
360°C 1<sup>30</sup> / 2<sup>4</sup>/<sub>40</sub> Ground Joint  
1 — Stopper 2<sup>4</sup>/<sub>40</sub>



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TM 102	250 ml	180	92.50
TM 104	300 ml	180	93.50
TM 106	500 ml	270	99.50
TM 108	1,000 ml	380	106.50

## POWER CONTROLS

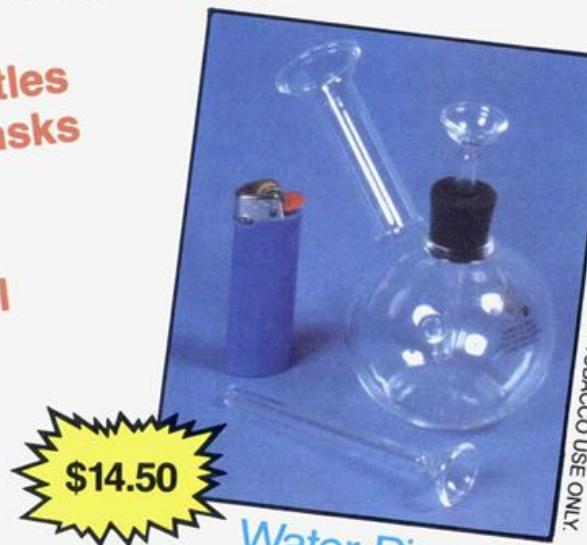
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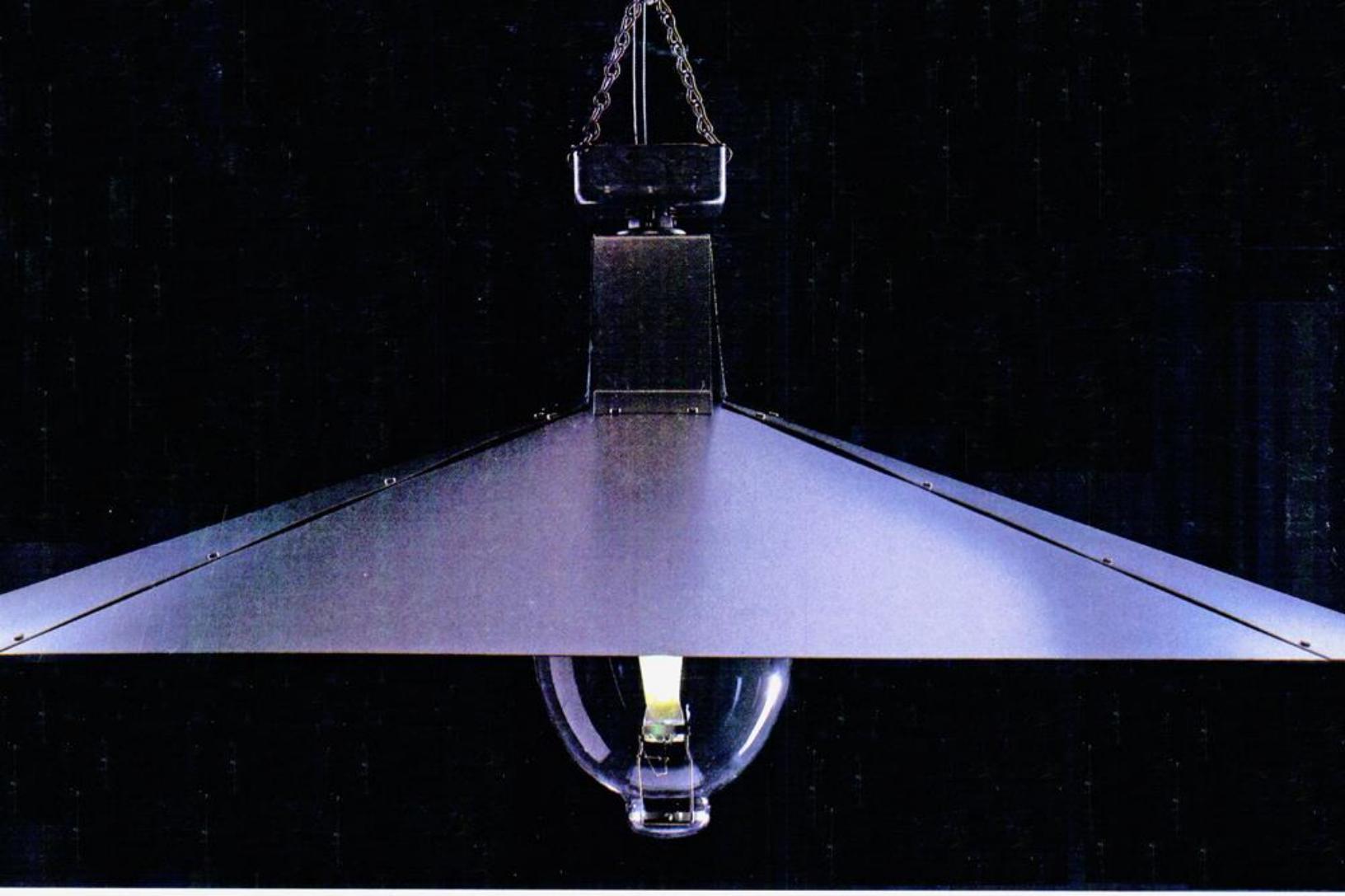
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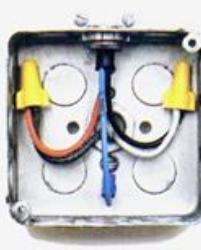
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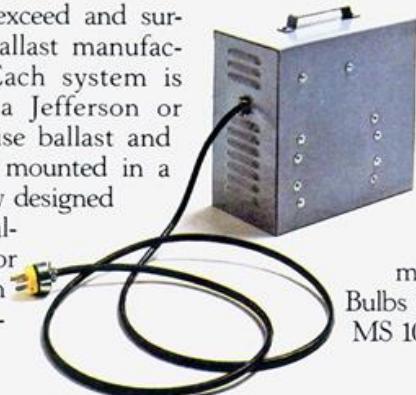


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# High Times

FEBRUARY 1987



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